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Personal Letter to YOU





To The Sower:

We thank our patrons for their generous patronage in the past and solicit a continuance of their trade.

GOOD SEEDS and a GOOD SEASON insure the vield. Good seeds make such a little difference on the cost of planting a garden, but such a tremendous difference in the quality and quantity of the crop. The first cost of seeds is not the place to practice economy -- cheap seeds are not cheap, even as a gift.

We believe in the very best at as low a price

as consistent with their quality.

intend that our customers shall not have to doubt that they are getting the very best that the market affords--our M-V Brand of Seeds are a guarantee of this.

Our Motto is "The Foundation of the Nation is the Sower, the Foundation of the Sower

is GOOD SEEDS."

No reliable firm could guarantee the crop, for that depends largely on providence to supply a good season, together with the condition and quality of the soil and proper tending, but even with these requisites, you cannot expect a good yield with poor seeds. Our seeds are in every way reliable.

MISSOURI VALLEY SEED CO.

INSTRUCTIONS. (READ CAREFULLY.

POSTAGE PAID—We deliver, postage paid, to any post office in the United State. Vegetable and Flower Scale packets, ounces and pounds (Beans, Peas, and Corn by measure excepted) when indeed a ritral price of packets, ounces and pounds (Beans, Peas, and Corn by measure excepted) when indeed a ritral price of the rate of 15c per quart for Beans and Corn are quoted without posts. It will be in cessely, to not at the rate of 15c per quart for Beans and Peas, and 10c per quart for Sweet Corn, when and it sent to make the rate of 15c per quart for Beans and Corn, and the amount may be deducted from reflicing.

FREIGHT—Field and Agricultural Seeds, Seed Potatoes, Sweet Potatoes Implements and other bulky or livery can be sent only by express or frieght at the purchaser's expense, extend the protein moted PACKING—No charge is made for boxes or packing, nor for delivery to fire in the lipe to or express office.

New 2-bushel Bags for Field Seeds, etc., 15c cents each extra.

REMITTANCE—Should be made by Post Office Money Order or Postal Notes Drafts on Boxes of Express Management and the protein the state of the p

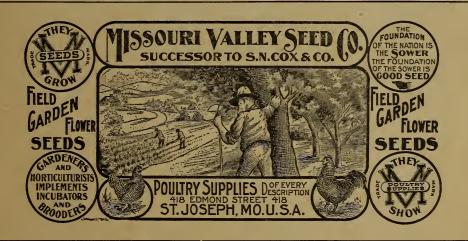
FRESH
PURE
TESTED
SEEDS



...1901...

... RETAIL CATALOGUE...

GARDEN. ..SEEDS..



GOOD SEEDS GOOD SEASON INSURE THE CROP

You cannot expect a good yield with poor seeds, no matter how much you labor.

Best Varieties, Purest Stocks, Highest Tests, Strongest Vitality.

VALUABLE TABLES

CENTAL SYSTEM TABLE

Some few years ago the seed merchants of the United States and Canada adopted the system of selling and buying grass and many kinds of field seeds by the 100 pounds instead of by the bushel weight. For the convenience of customers we give the following table, showing the number of standard bushels in 100 pounds.

STANDARD WEIGHTS OF VARIOUS ARTICLES

lbs. per	bu.		bus.	Ibs.	lbs. per	bu.		bus.	lbs.
Barley		100 lbs		4	Johnson Grass		IOO lbs		
Beans	60	**	— 1	40	Millet			-2	
Buckwheat	48	6.6	==2	4	Malt		4.6	-2	24
Broom Corn	46	**	==2	8 1	Oats		6.6	==3	4
Blue Grass, Kentucky	14	**	 7	2	Osage Orange		**	==3	1
Blue Grass, English	24	"	-4	4	Orchard Grass		**	 7	2
Cane Seed	50	**	==2	-	Onions	54	"	=1	46
Canary Seed	60	"	-1	40	Peas, wrinkled	56	**	-1	44
Castor Beans	46		==2	8	Peas, smooth	60	4.6	-1	40
Clover	60	"	-1	40	Rape	50	**	-2	
Corn, Shelled	56	"	-1	41	Rye	56	**	==1	44
Corn, on ear	70	"	-1	30	Red Top	14	**	==7	2
Corn, Sweet46 to	48	**	-2	4	Sweet Potatoes	56	**	=1	44
Corn Meal	50	"	2		Timothy Seed	45		-2	10
Cranberries	40	**	==2	20	Turnips	58	66	-1	42
Flax Seed	56	**	-1	44	Wheat	60	4.6	-1	40
Hemp Seed	44	**	=2	12	Tall Meadow Oat Grass	12	44	= 8	4
Hungarian		**	==2	4	Lawn Grass	14	**	==7	2
Irish Potatoes	60	"	-1	40	Pasture Grass Mixture	14		 7	2

QUANTITY OF SEED USUALLY SOWN PER ACRE

QUANTITY OF SEED REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS

Asparagus	Melon, Musk
Beet	Okra
Beans, Pole	Onion Sets, small
Carrot	Parsley 1 oz. to 150 feet of drill
Cabbage 1 oz. to 2,000 plants	Parsnip 1 oz. to 200 feet of drill
Cauliflower 1 oz to 2,000 plants	Peas 1 qt. to 100 feet of drill
Celery 1 oz. to 3.000 plants	Pepper 1 oz. to 1,000 plants
Cucumber 1 oz. to 50 hills	Pumpkin 1 oz. to 40 hills
Corn1 qt. to 200 hills	Radish
Dandelion 1 oz. to 200 feet of drill	Salsify 1 oz. to 70 feet of drill
Egg Plant1 oz. to 1,000 plants	Spinach 1 oz. to 100 feet of drill
Endive1 oz. to 150 feet of drill	Squash, early 1 oz. to 50 hills
Leek 1 oz. to 100 feet of drill	Squash, Marrow 1 oz. to 16 hills
Lettuce 1 oz. to 3,000 plants	Tomato 1 oz. to 1,500 plants
Melon, Water 1 oz. to 30 hills	Turnip 1 oz. to 150 feet of drill

VEGETABLE SEEDS

Please notice that our prices are quoted at the lowest figures, and do not include the prepayment of express charges or postage. If it is desired that the charges be prepaid add eight cents per pound for mail, or rates as per scale on second cover page for express.

ASPARAGUS

CULTURE—Sow the seed thinly in rows one foot apart in April or May, and keep down all weeds. To secure strong healthy plants thin out the seedlings to three or four inches in the rows, saving only the strongest. The one-year-old plants should be set out in spring, in a rich sandy loam, dug eighteen inches deep, into which has been worked plenty of well rotted manure. If a stiff clay soil is all that can be had add plenty of sand and sifted coal ashes to loosen it up, and also see that it is well underdrained. In planting for private use, set out in beds five feet wide, three rows in a bed, the outer being one foot from the edge and allow twelve inches in the rows; set the plants at least six inches below the surface.

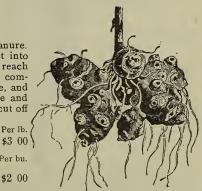
		¼ Ib.	
Conover Colossal. The most approved and standard sort; large		\$0 15	\$0 40
Palmetto. Of southern origin; a very desirable bright green asparagus; early	10	15	50
Barr Mammoth. Has very large tender stalks of a very light color	10	15	50
Columbian Mammoth White. Choice variety, stalks white, good quality	10	20	60
Fine one-year roots of above four varieties. \$1.00 per 100: \$5.00 per 1,000.			

ARTICHOKE

CULTURE—Deep rich sandy loam, with plenty of well rotted manure. Sow seeds in April and May, and when large enough transplant into rows three to four feet apart and two feet in the rows. They reach maturity the second year. Cover with litter when cold weather commences, first tieing up the leaves so that they will occupy less space, and in spring fork in a dressing of manure. It is an excellent vegetable and easily grown, thriving in any situation, provided the heads are cut off and used as they get ready.

Per oz. ¼ lb. French Globe. The standard and best variety..... \$0 25 \$0 75 \$3 00 ¼ bu. 1/2 bu. Per bu.

Jerusalem Artichoke. Tubers only; used for pickling \$0 60 \$1 00 \$2 00

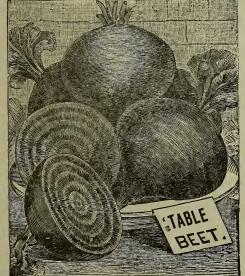


BEET

Ready for Table Use in 40 to 60 Days

CULTURE-Sow as early in the spring as the ground can be worked, and every two weeks after for a succession up to the first week of July. For general crop sow about the middle of May. The soil should be light sandy loam, well enriched with stable manure and plowed and harrowed until very fine. Sow in drills one foot to fifteen inches apart, and when well up thin to from four to six inches. The young beets pulled out of the rows are

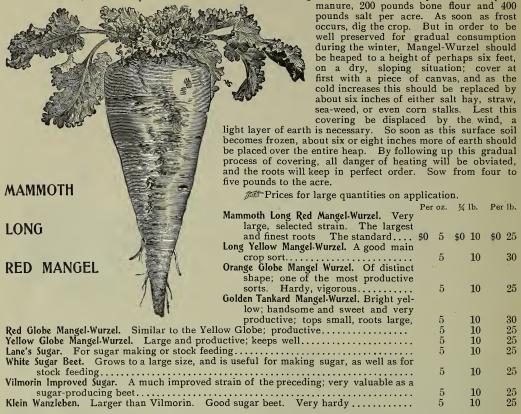




very sweet

BEETS-MAGEL-WURZEL, SUGAR, ETC.

CULTURE—As all Mangels require a deep soil in order to grow well, plow and subsoil at least a foot to eighteen inches, and apply plenty of rich stable manure. Sow in May or June, in rows eighteen inches to two feet apart, and thin to eight inches in rows. Young plants may be transplanted to fill up vacancies. Sow in addition, when the plants are three to four inches high, at the rate of 200 pounds. Complete manure, 200 pounds bone flour and 400



BEANS

As a farinaceous food for man, the Bean is considered far superior to any other legume, and next in importance to wheat. The modern varieties leave little to be desired; the great care given to their improvement has resulted in many superior sorts, greatly extending the season of use, as well as varying the quality or flavor. The rearing of a really dwarf form of the Lima Bean is one of the greatest recent advances.

DWARF WAX BEANS

Ready for Use in 35 to 45 Days

	Per pt.	Per qt.	Per pk.	Per bu.
Davis White Wax. Very hardy, productive long pods, very handsome, rustless,		•		
fine shipper, best canner; in all points the best Wax Bean	\$0 10	\$0 20	\$1 50	\$5 00
Golden Wax. Best known Wax Bean; very early, fine podded	10	20	1 50	5 00
German Black Wax. Has great merit, very tender and best quality	10	20		5 50
Black-Eyed Wax. A cross between Golden and Black Wax; very early and very		•		
productive; yellow pods	10	20	1 75	6 00
Improved Prolific Black Wax. Very early and prolific. The pods are round, full,	10	20	1 10	0 00
	10	20	1 75	6 00
stringless, and of fine quality				
Challenge Black Wax. An extra early strain of the Dwarf Black Wax	10	20	1 75	6 00
Bismarck Black Wax. Resembling in growth Wardwell Kidney Wax	10	20	1 75	6 00
Detroit Wax. Very much like Golden Wax but less liable to rust	10	20	1 75	6 00
Flageolet Wax. Flat, yellow, stringlesss pods of great length and breadth;				
exceedingly productive	10	20	1 50	5 50
Grinnell's Improved Golden Wax. Very early; round, golden pods; one of the best	10	20		5 50
Golden-Eyed Wax. Very hardy and prolific, with flat, yellow pods; very early	10	20	1 00	0 00
	~ ^	-20	4 00	~ ~0
and exceptionally free from rust; a very desirable and popular sort	10	20	1 60	5 50
Pink-Eyed Wax. Very fine variety; resembles Golden Wax	10	20	1 60	5 50
•				





GOLDEN WAX

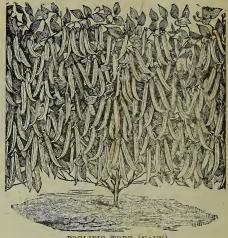
	Per pt.	per qt.	Per pk.	Per bu.
Currie's Rust-Proof Wax. Vigorous and hardy; productive	\$0 10	\$0 20	\$1 60	\$6 00
Refugee Wax. A perfect Refugee with long, round, yellow wax pods; suitable				
for early or late sowing, and an immense yielder	15	25	1 60	5 50
Wardwell Kidney Wax. Extra early; purely wax pods; long, flat and remarkably				
free from rust.	10	20	1 60	6 00
White Wax. Flat, yellow pods; very handsome; vines small	15	25	1 60	6 00
Yosemite Mammoth Wax. The largest pods of all the wax sorts; very productive				
and of good quality	15	25	2 00	7 00
Valentine Wax. One of earliest; pods thick and fleshy; absolutely stringless	15	25	2 00	7 00

DWARF, OR SNAP BEAN—Green Podded Ready for Use 30 to 40 Days

CULTURE—About the first of May select a warm, dry, sheltered spot; dig and manure slightly; make drills two inches deep and eighteen inches to two feet apart; drop the beans three inches apart in the drills, and cover not more than two inches deep. Hoe well in dry weather to keep down the weeds. Sow every two weeks for a succession.

and cover not more than two inches deep. Hoe well in dry weather to keep d	lown th	he weed	is. So	v every
	Per pt.	Per qt.	Per pk.	Per bu.
Burpee's Stringless Green Pod. This new Bean produces a vine similar to Red				
Valentine, but develops pods to edible condition two to three days earlier				
than Valentine. This advances the Stringless Green Pod to the first				
rank among table beans. Pods are stringless—absolutely so—the pods				
breaking as short and free as pipe stems; enormously productive	\$0 15	\$0 25	\$2 00	\$7 00
Best of All. Early and superior; round, green, fleshy pods	10	20	1 50	4 50
Boston Favorite. (Large Goddard). Red podded Dwarf Horticultural	10	20	1 50	4 00
Extra Early Red Valentine. Early strain of this popular round pod bean; nothing				
superior to this in Snaps among the green podded sorts; many prefer to				
Wax varieties	15	25	1 75	6 00
Early Mohawk. Long, flat and straight pods; very hardy	10	20	1 50	5 00
Early China Red Eye. Early and continues long in bearing; fine shell bean	10	20	1 50	5 00
Round, Early Yellow Six Weeks. Resembles the Mohawk, save in color; flat pods;				
a popular variety	10	20	1 50	5 00
Long Yellow Six Weeks. Early; the leading market sort; full, flat, green pods;				
good quality	10	20	1 50	5 00
Dwarf Horticultural. Late and productive; fine either shelled or green	10	20	1 50	5 00
Low's Champion. A very productive variety, with perfectly stringless large				
green flat pods	10	20	1 25	4 50
Refugee, or 1,000-to-1. Medium to late; very productive and tender, and largely				
grown for main crop; round pod	10	20	1 50	5 00
Prolific Tree. (Navy). The most prolific bean known; bean not large, but fine				
shape; cooks easy	10	20	1 00	3 00
Mexican. (Navy). Very productive; white sort	10	20	1 00	3 00
Boston Small Pea. Small, round and handsome	10	20	1 00	3 00
White Navy or Pea Bean. Seed white; nearly round	10	20	1 00	3 00
White Kidney or Royal Dwarf. Fine winter shell bean	10	20	1 00	3 50
White Valentine. Very early; tender; entirely stringless	10	20	1 50	5 00
DWARF LIMAS				
Ready for Use from 30 to 75 Days				
Burpee Bush Lima. A bush form of the large Pole Lima, the beans being large				
and flat, like those of that variety. It is very productive and its dwarf				
character is well established	20	35	2 00	7 00
Henderson Bush Lima or Sieva. Productive; very early	$\tilde{1}\tilde{5}$	25	$\overline{1}$ $\overline{75}$	6 00
Jackson's Wonder. Immensely productive; may be used as a shell bean or snap	~~		0	
bean; broad, flat pods, variegated bean	15	25	1 75	6 00
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PROLIFIC TREE (NAVY)

POLE OR RUNNING LIMAS

Ready for Use from 70 to 90 Days

CULTURE—Sow as the soil becomes warm and dry from the first part of May (for all except Limas) to the latter part of May, in hills four feet apart each way. Limas should not be planted until warm weather has fairly set in. One quart of Limas will plant about 100 hills, allowing four or five beans to a hill, and of the smaller sorts about 200 hills. Poles eight or ten feet long should be firmly set in the center of the hills before putting in the seed.

Per pt. Per gt. Per gt. Per pt.

Large White Lima. Largely grown and highly esteemed	\$0 20	\$0.35	\$2 00	\$7 00
King of the Garden Lima. Large in pod and bean; productive	20	35	2 00	7 00
Dreer Lima. Thick and of fine quality; early variety	20	35	2 00	7 00
Early Jersey Lima. A few days earlier in maturity than the large lima	20	35	2 00	7 00
Horticultural Lima. A cross between the Horticultural and Dreer Lima; it ma-				
tures much earlier than the Lima	20	35	2 00	7 00
POLE OR RUNNING BEANS				
Horticultural or Speckled Cranberry. Showy and excellent either as snap or shell				
bean	20	35	2 00	7 00
Speckled Cut-Short or Corn Hill. Used for planting among corn; one of the best.	$\frac{20}{20}$	35	$\frac{2}{2} \frac{00}{00}$	7 00
Dutch Case Knife. Pods long, green and flat; can be either snapped or shelled.	$\frac{20}{20}$	35 35	$\frac{2}{2} \frac{00}{00}$	7 00
Southern Prolific. A continuous bearer of good quality	$\frac{20}{20}$	35	$\frac{2}{2} \frac{00}{00}$	7 00
Scarlet Runner. A popular English pole bean; very ornamental	$\frac{20}{20}$	35	$\frac{2}{2} \frac{00}{00}$	7 00
White Crease Back. Long, round, stringless pods; fleshy and tender	20	35	$\frac{2}{2} \frac{00}{00}$	7 00
White Dutch Runner. Same habit as the Scarlet Runner, flowers and beans	20	90	2 00	, 00
being white	20	35	2 00	7 00
Kentucky Wonder. (Old Homestead). Pods green, very long; a very prolific	20	50	2 00	, 00
variety	20	35	2 00	7 00
Golden Andalusia. (New). Most productive of all the pole varieties; beans pure	20	90	2 00	. 00
white, round	30	35	2 00	7 00
Mont d'Or or Golden Cluster. Early; productive; golden wax pods	20	35	2 00	7 00
Tall Sioux. Immensely productive; large, round, beautiful bean; white with			_ 0	• 00
yellow spots; one of the very best pole	15	25	1 75	6 00
julia ii apata, and tali basi patati ii i				

BORAGE

The young leaves of this annual, which smell somewhat like a cucumber, are used as a salad or boiled like spinach. Should be sown at intervals, as the leaves are palatable only when young. Sow in the spring in light soil and transplant in shallow drills, a foot apart, when of about six weeks growth.

	Per oz.	74 ID.	Per ID.
Borage	\$0 15	\$0.35	\$1 25

BROCCOLI

CULTURE—Sow early sorts as soon as the ground can be worked in the spring, in shallow drills, drawn three or four inches apart. Plant out two feet apart each way when the plants are about four inches high. Cultivate the same as cabbage in rich soil. Use the same remedies for insect attacks as are recommended for cabbage.

The following are sorts best adapted to this climate, and the only ones which succeed generally; they are excellent and deserve much wider culture than is usual in this country:

	Per oz	¼ lb.	Per lh
Early White Cape. Best flavor; very hardy; small			
Early Walcheren. Late variety.	40	125	
Early Purple Cape. The very best large	30		

BRUSSELS SPROUTS

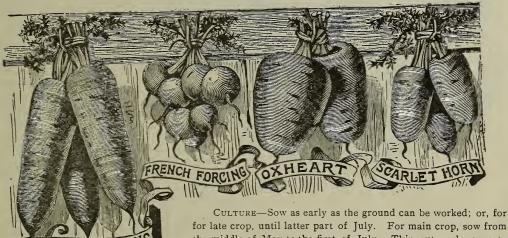
CULTURE—Sow in May, in the same manner as Cauliflower, and transplant in July, one foot apart in the rows, which should be one and one-half feet apart. In gardens, both large and small, Brussels Sprouts are, without exception, the very best winter vegetable that can be grown. The real sprout is not much larger than a marble, and as firm and hard almost as the stalk itself. These are the sort which cooks prefer. They strip off the outer covering, cook them whole, and serve them up artistically in that fashion. When cooked through, and no more, such Sprouts melt in the mouth like the tenderest Cauliflower, and are equally as good.

Per Oz. 1/4 lb. Per lb.

Improved Half Dwarf. The very best and surest strain. \$0 20 \$0 60 \$2 00 Improven Dwarf. Compact heads of fine quality 20 60 2 00

CARROT

Ready for Table in 60 to 80 Days



for late crop, until latter part of July. For main crop, sow from the middle of May to the first of July. Thin out early crop to five inches in row, main crop six to seven inches; the rows ten inches apart for early crop, fourteen for main crop. Hoe often

and deeply between the rows. Soil, light, sandy loam, richly manured and deeply dug. Sow at the rate of two pounds to the acre.

	Per oz.	¼ lb.	Per lb.
French Early Forcing. Tender and fine; best for early and late crops and frames	\$0 10	\$0 20	\$ 0 60
Early Horn. Very early variety. Small root. Excellent flavor	10	20	60
Half-Long Stump-Rooted, Chantenay Strain. Style of Nantes; broader shoulder	10	20	60
Half-Long Stump-Rooted, Carentan. Coreless; flesh red, of fine quality	10	20	60
Half-Long Danvers. Thick, of good quality and exceedingly productive	10	20	60
Imp. Long Orange. Best for stock feeding, but good for late summer or winter use	10	20	60
Oxheart or Half-Long Guerande. This is one of the most valuable of recent introductions			
either for family or market. Most beautiful shape and rich orange color	10	2 0	60
Large White Belgian. Very large. Excellent stock carrot	10	15	40
Large Yellow Belgian. Very large. Excellent stock carrot		15	40

CHERVIL

CULTURE—Cultivate and use the curled variety of Chervil like Parsley. Sow at any time in the spring, in shallow drills, one foot apart, in well-prepared ground. The seed of the Tuberous Chervil should be sown in August or September, and treated like the Carrot.

CHICORY

Chicory is cultivated chiefly for its roots, which are dried, and used as a substitute or flavoring ingredient for coffee. The leaves, when blanched, are also esteemed as a salad. Cultivate as recommended for carrots.

Per oz. ½ lb. Per lb.

Large Rooted Magdeburg. Roots are the Chicory of commerce..................\$0 10 \$0 25 \$0 75

CABBAGE

Ready for Use in 75 to 120 Days

CULTURE—Soil for Cabbage should be rich and heavy loam, with good drainage. On such a soil, with an abundance of stable or Thorburn's Complete Manure, excellent crops are sure to be grown. For early spring sow in fall; not too early, or the plants are liable to bolt in the spring instead of heading. In a month the plants will be fit to transplant to cold frames, where they are wintered, taking care, in planting,



PREMIUM LATE FLAT DUTCH

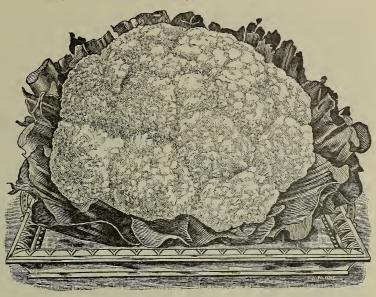
to set the young plants down to the first leaves. Transplant in spring as soon as the ground can be worked, setting the plants two feet apart one way and from twelve to eighteen inches the other, according to the variety. For late or winter crops the seed is sown in May, and the plants set out in July. In this case they are set in rows two by three feet, so as to work them with a horse and cultivator. To destroy the green worm that is so destructive to the leaves and heads of Cabbage and Cauliflower an experienced grower says: "Take one ounce of saltpetre and dissolve it in twelve quarts of water; then take a short handled whisk broom, dip it in the solution and sprinkle the plants well. One application is sufficient, unless the stuff is washed off by heavy rains. The liquid, being perfectly clear, never colors the Cauliflower or Cabbage heads." To prevent the turnip flea from attacking the young plants, sift fine airslacked lime or tobacco dust over them as soon as they appear above the ground.

	Per oz.	¼ lb.	Per lb.
Express. The earliest of all; small, solid heads, fine quality. Fine for forcing	\$0 15	\$0 40	\$1 50
Etampes. A fine extra early small French sort, with pointed heads. Very solid	15	40	1 50
Early York. The standard English sort, pointed heads	15	40	1 25
Early Jersey Wakefield. Well known and most valuable for early	25	75	3 00
Early Winnigstadt. A standard second-early variety. Pointed heads	15	40	1 50
Early Dwarf Savoy. The earliest Savoy variety; distinct and good	15	40	1 50
Early Flat Dutch. A remarkably fine strain; a sure header, the head weighing from ten to twelve pounds. Most valuable for market	15	40	1 50
Henderson's Early Summer. A superior second-early sort; produces large and solid heads	10	10	1 00
of fine quality	15	50	1 75
Selected All Seasons. One of the finest for second early or late, growing to a large size	19	30	1 10
quickly and surely. The true sure-header	15	50	1 75
Henderson Succession. An excellent second early or late sort on the style of All Sea-			
sons	15	50	1 75
Filder Kraut. Pointed head. Fine for kraut	15	40	1 50
Fottler Brunswick. Good, solid heads, either for second early or late	15	40	1 50
Stonemason Drumhead. A standard winter Cabbage for main crop	15	40	1 50
Premium Late Flat Dutch. Also a valuable main crop sort for market	15	50	1 75
Large Luxemborg. Solid head, oval shape, outer leaves tinged red, stem remarkably			
short; very sweet and tender	15	50	1 75
Drumhead Savoy. Very fine strain.	15	50	1 75
Mam. Rock Red. Very large, solid, red heads; the finest strain of Red Cabbage	15	50	1 75
Red Dutch. For pickling. Hard oblong heads. Dark purple	15	50	1 75
Hollander. One of the hardiest in cultivation. Quite a distinct variety. Medium size, round, very solid, extra keeper, best of quality. Our seed is from a very reliable			
Danish grower	25	75	3 00
Marblehead Mammoth Drumhead. The largest cabbage known, weighing in some in-			
stances over fifty pounds. Under good cultivation acres have been grown where	15	50	1 75
the heads would average thirty pounds each	19	90	1 10
Genuine Sure-Head. Never fails to make a large, fine head with few outer leaves. Fine grower. Flat drumhead	15	50	1 75

CAULIFLOWER

Ready for Use in 90 to 120 days

CULTURE—This is the same as for Cabbage, except that extra manure and plenty of water will pay upon this. If the soil be dry, water fre-quently, and if the plants could have a heavy mulch of hay or straw, it would keep the soil moist, and the plants would not suffer from drought. The early kinds should be strong enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage. To destroy the Cauliflower maggot, it is recommended to take one ounce of sulphuret of potasium and dissolve it in one gallon of water. Heat the liquid to about 100 degrees, take a large spoon, or something that will hold the 100th part of a gallon, and pour the liquid against the stalk of the plant just above the ground.



¼ lb.	Per 1b.
\$1 50	\$ 6 00
3 00	10 00
8 00	25 00
2 00	7 00
	8 00 2 00

COLLARDS

CULTURE—Sow seed as for Cabbage in June, July and August, for succession; transplant when one month old in rows a foot apart each way and hoe often. Per oz. ¼ lb. Per lb.

CORN SALAD, OR FETTICUS

CULTURE—Sow during August or early in September, in drills a quarter of an inch deep and six inches apart. If the weather is dry when the seed is sown, tread it in lightly to insure germination. Keep down weeds with hoe. Just before winter cover thinly with straw or leaves.

Per oz. ¼ 1b. Per lb.

Large Seeded. The best variety for family use; makes delicious salad; used during the

CRESS

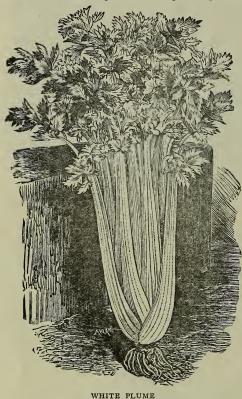
CULTURE—Sow thickly in shallow drills every two or three weeks. It is useful not only for salad, but for the breakfast table and for garnishing. Water Cress should be sown in damp soil, or if a stream of water can be utilized, it would be much finer. It will also thrive well in damp hot beds. Rightly managed its culture is very profitable. To obtain early salad, it is a good plan to sow with Water Cress seed a strip four inches wide on the outer margin of a hot bed, inside the frame (where it is always cool). This will be found a satisfactory method of obtaining it early.

	Per oz.	⅓ lb.	Per Ib.
Curled or Pepper Grass	\$0 10	\$0 15	\$0 50
Broad Leaved	10	15	50
Broad Leaved Winter	10	20	75
True Water Cress	40	1 25	4 00

CELERY

Ready for Use in 100 to 120 Days

CULTURE—Sow the seed in a light, rich, dry border as early as the ground can be worked, in drills eight or ten inches apart, and cover the seeds about a quarter of an inch deep, rolling or treading them in if the ground be dry. When fairly out of the seed leaf, they may be transplanted to another bed, or they may be thinned out to six or eight inches apart, and let grow until wanted to plant out in beds or trenches. The beds should be kept well weeded, and an occasional soaking with water in dry weather will do the plants good. Early in July at the north, a month or six weeks later in the southern states, is the proper time to set the plants out in beds or trenches. Press the soil firmly against the roots. In the garden the better way is to set the plants in shallow trenches—we say shallow, for it is obviously a bad plan to remove all the good soil (as must be done in a deep trench) and put the plants in that which is poor. The plants may be set in a single



row in a narrow trench, or the trench may be made into a bed wide enough to hold two, three or four rows, and in this case the plants are in a compact form to be covered for the winter where they grow. This will save much labor where there is no root cellar for storage, as often happens to be the case. When grown in beds this way, the rows should be one foot apart, and the plants about eight inches apart in the rows. The bed should be made very rich with thoroughly decomposed manure. The plants will need to be earthed up two or three times, and in doing this care should be taken not to let the earth get into the heart of the plant. In field culture the plants are set on the surface in rows four feet apart when the Celery is to be earthed up in the field for early use, and two feet apart when the plants are to be taken up and blanched in the cellar for winter use. The plants are set six inches apart in rows If not grown in beds, the best way to store is to dig trenches in a well drained spot in the open ground, one foot wide and of a depth a few inches less than the height of the Celery. The plants are then lifted and set close together until the whole quantity is stored. The edges of the trench should be made sloping from the tops of the plants. When severe cold weather comes on, cover gradually with leaves, hay or straw and place boards on top. In such a trench the stalks will blanch perfectly, and may be taken out any time during winter for use or sale as

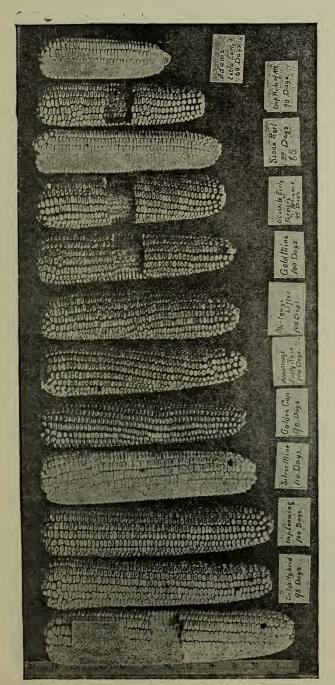
The turnip rooted or "Knob" Celery needs no earthing up and may be planted in rows one foot apart.

	Per oz.	¼ lb.	Per lb.
Improved White Plume. Naturally white or light foliage; requires but little banking up to blanch; very early and extensively grown for market. Per pkt., 10cts		\$0 75	\$2 25
Golden Self Blanching. A grand solid variety, on the style of the White Plume, except that it is golden yellow where the Plume is white. Per pkt., 10 cts	30	80	2 50
Giant Pascal. An easily blanched and fine keeping large sort, of excellent flavor; superior for late use		60	2 00
Large Ribbed Kalamazoo. A good half dwarf white solid Celery	20	60	2 00
Boston Market. Rather dwarf; has no particular merit	20	60	2 00
Crawford Half Dwarf. Of vigorous growth and excellent flavor	20	60	2 00
Sandringham Dwarf White. Small, white, solid	20	50	1 50
Giant White Solid. Large, round, crisp and solid. The old well known variety		50	1 50
Celeriac or Turnip Rooted. Has edible roots which are used for soups and stews	20	50	1 50
Celeriac or Large Smooth Prague. An improved form or rooted celery, roots smooth and round.		50	1 50
Golden Heart Dwarf. A very popular and distinct variety. In habit of growth it resembles the Half Dwarf; white sorts, except that when blanched the heart which is large and full, is of a waxy golden yellow	3	60	2 00

...FIELD CORNS SWEET

Our Corn Will Ripen Ten Days Earlier Than Corn Grown One Hundred Miles South of Sioux City.

THIS MAY SAVE YOUR ENTIRE CROP



In cataloguing this branch of our business, we wish to state to our customers and the trade in general the value and importance of procuring not only good varieties of seed corn, but that which is grown in the very heart of the Great Corn Belt, grown in a climate and a soil where it not only develops great vigor of stock, size of ears and richness of kernel, but where there is a climate like ours, which at the right season of the year ripens and preserves it for seed of the highest vital test.

For a number of years we have given this branch of our business the strictest attention and by selection year after year of our seed stocks we are able to offer our customers for the coming season varieties of seed corns of the purest strain and truest types that are possible to produce.

Many farmers realize the value of changing seed and securing the best and truest strains and reaping the reward of their wisdom in choice by the yield of their acres. Still there are those who wait for their neighbors to get the seed first, and put off buying good seed until the next year. This plan was all right before the flood when men lived hundreds of years, but ALL SHOULD realize that it's too slow for this advanced age. Get good seed this year and improve it still more next. The farmer is the basis of the real wealth of our country. An increase of from one to five bushels of corn per acre means millions in money to the farmers of Iowa and surrounding states.

At the rate of \$1.50 per bushel for seed corn it costs only about 30 cents per acre to plant your field with the purest strains of good vital seed.

We do not boast as some people do that to procure pure seed of certain varieties and kinds you must of necessity get it through us, but we do pride ourselves in stating to you that the varieties we have described in this catalogue are not only of the purest strains, the highest developed types, but grow in the finest climate on earth for curing and ripening the corn for seed. What is true of the autumn season for curing field corn seed is also of still greater value in curing and ripening for seed the different varieties of sweet or sugar corn. The great amount of saccharine matter in this corn makes it often, in damp and foggy climates, hard to cure, even by kiln drying, and then it seldom ever tests over 75 per cent. to grow, whilst here in our rich autumn sunshine where fogs are seldom or never seen at that season, this corn ripens and cures to perfectiou and will test as much as 95 per cent. nine times out of ten.

SIOUX CITY CORN RIPENS EARLY

From actual test and comparison we are prepared to say that corn, field or sweet, grown at Sioux City, will ripen ten days earlier than corn grown south of us, even but 100 miles.

Ten days may save your entire crop.

Don't risk getting your seed south of this.

SWEET OR SUGAR CORN

CULTURE—Plant in hills three feet apart each way, and five or six kernels in a hill. Hoe often and draw soil up to the stems; break off side shoots. Make the ground rich with well rotted manure. Sown in drills, a greater yield from a given surface will be obtained. The best fertilizer is Thorburn's Complete Manure. By sowing successive lots and properly selected varieties, the supply of sweet corn can be kept up until hard frosts kill the plants.

Market Gardeners and Private Planters will do well to consider that our Northern Grown Seed will give them earlier corn than will seed of the same varieties grown farther south. Our Seed Corn is thoroughly tested before it leaves our hands.

EXTRA EARLY VARIETIES				
From 55 to 65 Days	Don m4	Day at	Don -1-	Danka
WHITE MEXICAN. (See next page for this fine variety)			Per pk. \$0 90	
excellent for market and has attained wide popularity	10	15	60	2, 00
white cobs; very much better quality	10	15	75	2 25
compact ears	10	15	75	2 25
for an early sort	10 10	15 15	60 60	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
SECOND EARLY OR INTERMEDIAT	E			
From 65 to 80 Days				
Minnesota. Nearly as early as Marblehead; dwarf growth; standard early	10	15	60	2 00
Perry Hybrid. Very early and of large size; most valuable for market Shaker Early. Very large, white grain and quite early	$\frac{10}{10}$	15 15	60 60	$\begin{array}{ccc} 2 & 00 \\ 2 & 00 \end{array}$
Early Crosby. Matures after the Minnesota; fair sized ears of good quality	10	1 5	60	2 00
Moore Concord. Of strong growth; ears large and well filled	10	15	60	2 00
Early Adams. Not a sugar corn, but grown extensively all over the country for market purposes	10	15	60	2 00
Early Champion. A new and very desirable sort; ears nearly as large as Ever-	10	10	00	_ 00
green; pure white; only a few days later than Minnesota; very fine for	7 0	4.5	20	2 00
market gardeners	10	15	60	2 00
early strain of this corn, earlier by six to eight days	10	15	60	2 00
Early Mammoth. Very large and not very late	10	15	60	2 00
Black Mexican. Very sweet and of superior flavor; grains black	10	15	60	2 00
Hickox. Earlier than Stowell; large ear, fine quality; plant with Stowell and it will come in ten days earlier	10	15	60	2 00
Canada Anti-	25 11 12 12 12 12 12 12 12 12 12 12 12 12			

CORN-GENERAL CROP OR LATE VARIETIES

85 to 90 Days	_	_		
	Per pt.	Per qt.	Per pk.	Per bu.
Stowell Evergreen. Remains green a long time, and is highly prized; one of the				
most popular varieties	\$0 10	\$0 15	\$0 60	\$2 00
Ne Plus Ultra. Small, but one of the sweetest sorts grown	10	15	90	3 00
Late Mammoth. Rank in growth, large ears, rich and sweet	10	15	60	2 00
Egyptian. Large and of superior quality; largely used for canning	10	15	60	2 00
Country Gentleman. Same as Ne Plus Ultra, but with large ears of delicious				
quality	10	15	90	3 00
Sweet Fodder Corn. For soiling and ensilage	5	10	- 50	1 50

WHITE MEXICAN. Do you know the marvelous sweetness of the old Black Mexican? You like its taste, but dislike its color. Well, we have something finer in every way, superior in sweetness, a pure white color, large as the Minnesota, five days earlier than the Cory. It was ready for table use this season in fifty-five days. Originated at Fort Dodge, Iowa. Was placed in our hands for trial and development. We know of nothing its equal for the Market Gardener. If you want the finest Market Gardener's Corn known, plant White Mexican. We control the entire stock You cannot get it from anyone but us or our dealers.

FIELD CORN

EARLY VARIETIES

	Per pk.	½ bu.	Per bu.
Pride of the North. Ripens in about 85 days; yellow dent; one of the best corns for the Dakotas and for replanting		\$0 75	\$1 40
Duly's Hybrid. Ripens in 90 days. (See this page for fuller description)	40	70	1 25
Improved Yellow Flint. Eighty-five day corn; a very good corn for the far north; small			
cob; good yielder	40	70	1 25
White Flint. (Old Hominy). Has large silvery white kernels; a very large ear; small cob	40	70	1 25
LATE VARIETIES			
lowa Gold Mine. Now a well known standard corn and still one of the very best; ripens in about 100 days; grain, deep rich yellow dent; very small cob; 70 lbs. of ears			
will shell out 63 to 64 lbs	40	70	1 25
lowa Silver Mine. One of the very choicest white corns for the Northwest; large beautiful ears; good sheller; about 100 days		70	1 25
Leaming. Yellow dent; red cob; deep plump grains, rich golden color; yields 80 to 100 bushels per acre; about 100 days		70	1 25
Champion White Pearl. A very large, beautiful white dent corn; immense yielder; about			
100 days	40	70	1 25
Armstrong's Ea. Rose. Fine yielder; beautiful yellow dent	40	70	1 25

FARMERS, DAIRYMEN, STOCK RAISERS

TRY THE EVERGREEN SWEET FODDER CORN

The necessity for green fodder is becoming more apparent each year to all dairymen and stock raisers, and the demand for it is increasing in proportion as the ability of our over-taxed lands to supply sufficient pasturage graws less. The best thing for the purpose is our

EVERGREEN SWEET FODDER CORN

This variety is generally acknowledged by our best farmers, dairymen and stock growers, as being better and far superior to what is known as either the brand of ensilage corn, Red Cob Ensilage or Southern White Ensilage, from the fact that it grows to an immense size, making a large juicy stock, that is so very sweet and nutritious that cattle will eat every part of the stock and leaves with relish, clean to the butt.

Evergreen Sweet Fodder Corn also yields an enormous quantity of leaves, and the stalks are rich in saccharine matter—more so than any other variety we are acquainted with.

For prices see above.

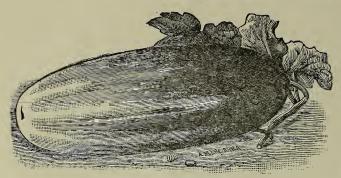
DULY'S HYBRID-(95 Days)

We can confidently say that this is without doubt the finest and largest yielding Early Corn ever offered in the Northwest. Kernels, fine golden dent. Yielded with us 75 to 80 bushels per acre. Originated near Sioux City in the Missouri Valley. This may be planted in June and will be out of the way of frost by September 1st. Its yield is sufficiently large to warrant planting for general crop. The man who plants this last of May to 1st of June will always have Sound Corn.

This corn is nearly as early as the Pride of the North and will out yield this sort two to one. Largest and longest eared early corn known.

CUCUMBER

Ready for Use in 40 to 60 Days



IMPROVED WHITE SPINE

CULTURE-For very early, sow seeds in hot beds on peices of sod, or in small pots and they can be readily transplanted with a gain of about six weeks before they can be sown in the open ground. Plant out in rich soil when danger of frost is over, or they may be protected by hand glasses, or even by paper held down at the corners with a handful of earth For general crops, sow in the open ground as soon as the weather is settled and warm, and again every two weeks for a succession. For pickles, sow from the middle of June to the first week in July Sod land, turned over in the fall, is the best for them. Plant in hills four feet apart, putting a shovelful of well rooted manure in each hill.

	Per oz.	¼ lb.	Per lb
Early Russian. Very early, short; is a valuable variety for small pickles, for which it is			
often much in demand	\$0 07	\$ 0 15	\$0 50
Early Short Green. (Or Early Frame). Good for pickling; productive	07	15	50
Early Green Cluster. Fruit small and in clusters; very prolific	07	15	50
Early White Spined. Early, and good for pickling or table use	07	15	50
Improved White Spined. Well flavored and of medium size	07	15	50
Arlington. A selection from the White Spine, being more pointed at each end. The			
young fruits are unusually crisp and tender, and are of very dark green color,			
so that the variety is considered by many to be the best for small pickles	07	15	50
Evergreen. Very early and prolific; retains its fine deep green color in all stages of			
growth	07	15	50
Long Green. Long and crisp; a popular and reliable variety for pickles	07	15	50
Long Green Turkey. Fruit very long and rather slim	07	15	50
Giant Pera. Very long and one of the best for table use	07	15	50
Green Prolific Pickling. One of the best for pickling; dark green, very productive and of			
uniform small size	07	15	50
Nichols Medium Green. Most symmetrical, and a very fine table sort	07	15	50
Boston Pickling. A favorite eastern sort, of fine quality	07	15	50
Tailby Hybrid. Very long, and superior for family table use	07	15	70
Small Gherkin. Very small burr; used for pickles	10	30	1 25
Japan Climbing. Can be grown on trellis	10	30	1 25
Westerfield Chicago Pickling. Very popular in Chicago market. Color deep green, med-			
ium size, prominent spines	07	15	50
Serpent or Snake. Cucumbers grow curled up like a snake, four to five feet long.			
Quality fair	07	15	80

DANDELION

CULTURE—The Dandelion is a hardy perennial plant, and one of the most desirable early spring salads. Sow in early spring in drills half an inch deep and eighteen inches apart; thin out the plants to twelve inches. Keep clear of weeds during the summer, and the ensuing spring the leaves will be fit to cut. They are best, however, when blanched, which makes them tender and destroys to some extent their bitter taste without in any way impairing the qualities which make them desirable as greens. Per oz., 20c; ¼ lb., 75c; per lb., \$2.00.

ENDIVE

CULTURE—Sow in June, July and August, cover lightly; when up thin out to eight inches apart and water well afterward, if dry. When the leaves are six or eight inches long, blanch by gathering in the hand and tying together near the top with yarn or bast. This must be done when quite dry, or they will rot. At the approach of winter take up carefully, with a ball of earth to each plant, and place close together in frame or cellar for use. They must be kept dry and have plenty of air, or they will rot.

	,	-	•		·	•	Per oz.	¼ lb.	Per lb.
Green Curled Winter.	Standard	sort for f	all and	winter crop	o		\$0 20	\$0 50	\$1 50
Broad Leaved. A sv	veet variety	, fall and	winter	r	·		20	50	1 50

FENNEL, FLORENCE OR NAPLES

CULTURE—Sow in spring in rows sixteen to twenty inches apart. Thin out so as to have the seedlings five or six inches apart, and water as plentifully as possible. The plant is usually eaten boiled. In flavor it resembles Celery, but with a sweet taste and a more delicate odor. Per oz., 15 cts.; per ½ lb., 40 cts.; per lb., \$1.50.



IMPROVED NEW YORK PURPLE EGG PLANT

EGG PLANT

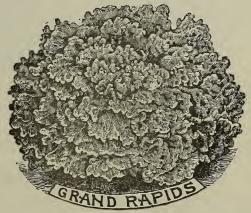
CULTURE—Sow in hot beds, very early in spring, and transplant when two inches high into a second bed or into small pots. If that is not done, thin to four inches apart. Do not plant out until the weather becomes perfectly settled and warm. Cool nights or wet weather will check them. Keep some back in frames for a second planting in case of weather changing unexpectedly. Keep plants watered for a few days if the sun is hot when put out. Set out plants three feet by two.

	Per oz.	¼ lb.	Per lb.
Early Long Purple. Of distinct shape and fine quality	\$ 0 2 0	\$0 50	\$1 75
Round Purple. Medium, pear-shaped, pale purple,			
good	25	75	2 25
Improved New York Purple. The best; large oval, deep			
purple; grown more extensively than any other			
sort	40	1 00	4 00

LETTUCE

Ready for Use in 40 to 60 Days

Lettuce thrives best in rich moist ground. For the principal early crop sow the seed in September in the open ground. Transplant when large enough into cold frames, and protect the plants during the winter in the same manner as early cabbage. Set the plants out early in April, or sow the seeds in hot beds in February or March, and transplant into a sheltering border with a southern exposure. For successive crops, sowing may be made in the open ground as early as the spring opens and continuing until July. Always thin out well or the plants will not be strong. When wanted as a cut salad sow the seeds thickly in rows or broadcast.



20

75

seeds thickly in rows or broadcast.				
		Per oz.	¼ lb.	Per lb.
Cold Frame White Cabbage. For starting in cold frames and setti	ng out in early spring;		, · ·	
extensively used by market gardeners		\$0 10	\$0 20	\$0 75
Early Curled Simpson. A leading early sort; very tender		10	20	75
Black Seeded Simpson. A superior variety; large and of light co	olor	10	20	75
	rican Gathering. Twisted			
	and curled leaves; fine			
	variety, either for early			
	or late sowing	10	20	75
	v Prize Head. Bright			
	green, tinged with			
	brownish red; tender,			
	crisp, large loose head.	10	20	75
	•	10	20	10
	fornia Cream Butter.			
	Round, solid heads,			
	medium green, good			
	size, compact; rich but-	10	20	75
	tery taste	10	20	10
	y Curled Silesia. An early			
	erect growing, cluster-			
	ing variety, which may			
	be sown very thick and			
	cut while the plants are			
	very young, at which			
	time they are exceed-			
	ingly tender, sweet and			
IRICR?	well flavored; color	10	20	75
	light green	10	20	10
The state of the s	nisball White Seed. A well		20	
Tannishall Plack Sand Francisco I all all all all all all all all all a	known forcing variety	10	20	75
Tennisball Black Seed. Forms close hard heads; good for forcing	3	10	20	75
White Summer Cabbage. Close heads, of good size; fine for sum:	mer	10	20	75
Salamander Head. Fine compact heads, which resist the sumi	mer neat admirably; is			

very popular in some sections.....

LETTUCE—Continued

	Per oz.	¼ lb.	Per lb.
Grand Rapids Forcing. Large tender heads; one of the best for early forcing	\$0 10	\$0 20	\$0.75
Deacon. A large solid Cabbage-Lettuce for summer	10	20	75
Improved Hanson. Very large and solid; sweet, crisp and tender; withstands the hot sun			
well	10	20	75
Denver Market. An early variety for forcing or open ground. Large solid head; the			
leaves are beautifuly marked and blistered; very crisp and tender	10	20	75
Paris White Cos. Fine if sown very early; requires tying up to blanch	10	20	75

KALE OR BORECOLE

CULTURE—Cultivated and grown exactly like Cabbage. Sow early in the spring in a hot bed, and when from one to two inches high transplant into a bed or border that has been highly manured and deeply dug. The plants should stand two feet apart in rows three feet apart. The soil should be kept mellow and free from weeds. Cover with litter or leaves during the winter. Plants started and grown in this way should be fit to blanch the following spring. The seed may also be sown early, in the open border, and transplanted in rows (as directed above) as soon as out of the seed leaf; but they will need to be a year older than the hot bed plants before being fit to blanch. Sea Kale is not fit to eat till it has been blanched, either under large pots or by banking up with sand. The mid-ribs are the parts eaten. They are cooked like Asparagus and usually served with drawn butter.

		Per oz.	¼ Ib.	Per Ib.
Fy Curled Dwarf German G	ens. Very dwarf and spreading; best strain	\$0.10	\$0.25	40 80
LA. Curica D warr ociman a	ons. Very awarr and spreading, best strain	#0 10	#U 20	#0 00
Curled Tall Green Scotch.	taller growth of the above. Late variety	10	20	75

KOHLRABI

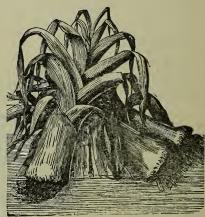
CULTURE—This is an excellent vegetable and should be grown in every garden. Sow in spring, in rows eighteen inches apart, afterwards thinning the plants to eight or ten inches. If the weather is suitable the thinnings may be planted, but it is considered difficult to transplant. Keep the weeds down and when the thickened stem above ground is two or three inches through they are fit to eat, and should be used at once, being tough when old. They are cooked the same as Turnips, and, when well grown and used at the proper stage are tender and very palatable.

		Per oz.		
Early White Vienna.	Handsome and delicate; white ball	\$0.20	\$0.75	\$2.50
Early Purple Vienna.	Very good sort	20	95	3 00

LEEK

CULTURE—Sow very early in the spring in drills six inches apart and one inch deep. Thin out to one inch. When about seven inches high transplant them in rows twelve inches apart and as deep as possible; but do not cover the young center leaves. Water thoroughly, if dry when planted out. Draw earth up to them as they grow; rich soil is required. Take up and store in earth in a cool cellar before winter weather. The seed may also be sown in September, and the young plants transplanted in spring to where they are to remain.

Per	oz.	¼ lb.	Per lb
Best Large Flag Winter. Hardy and productive	20	\$0 60	\$2 00
Musselburg. A large standard sort; remains long in good condition	20	60	2 00
Large Carentan. A superior variety with distinct and dark colored leaves; stout in habit and hardy	20	60	2 00



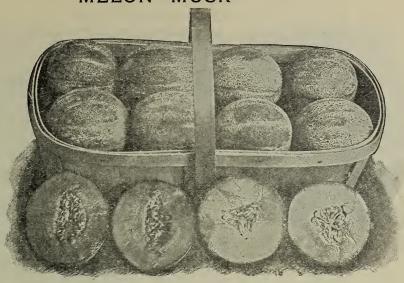
LEEK

MUSHROOM SPAWN

CULTURE—Mushrooms may be grown in cellars, under benches of green houses or in sheds wherever the temperature of fifty degrees can be kept up through the winter. The beds should be made from November to February, according to the time the Mushrooms are wanted, and it requires about two months for them to begin bearing. Secure fresh horse dung, free from straw and litter, and mix to an equal bulk of loam from an old pasture with it. Keep this under cover, taking care to turn it every day to prevent heating, until the pile is large enough to make a bed of the required size. Three or four feet wide, eight inches deep and any length desired, are the proper porportions for a bed; but these may be varied. Prepare the mixture of loam and manure, making the bed in layers and pounding down each with the back of the spade. Leave this to heat through for a few days, and as soon as the heat subsides to ninety degrees make holes in the bed about a foot apart each way, into which put pieces of spawn two or three inches in diameter; fill up the holes with the compost, and at the expiration of a week or ten days the spawn will have thoroughly diffused itself thorough the bed. Spread a layer of fresh soil over the heap to the depth of two inches, and cover with three or four inches of hay, straw or litter. Examine the bed often to see that it does not get dry. Take special care, however, when water is given, that it be at a temperature of about one hundred degrees.

MELON-MUSK

CULTURE-Select a light sandy rich soil, and after all danger of frost is over, and the ground has become warm and dry, plant in hills four to six feet apart each way, six to twelve seeds to the hill. When up, and all danger of insects has past, pull out all but three Cultivate plants. until the vines cover the ground and pinch the ends of the growing shoots to induce early fruiting. Ashes, lime or even dry road dust,



ROCKY FORD

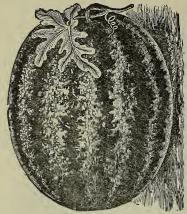
is excellent to sift over the young plants when the dew is on, to prevent the attacks of insects. A few hills for early use may be had by sowing in hot beds on pieces of sod or in pots. The seed may also be started out of doors under hand frames or glasses.

It is quite important that proper soil be selected for growing Musk Melons, as on heavy soil the quality will be poor.

will be poor.			
·	Per oz.	¼ lb.	
► Golden Netted Gem. Very early, small and of fine flavor; green flesh	\$0 07	\$0 15	\$0 50
The Surprise. Early, oblong with rich orange flesh of good quality		15	50
- White Japan. Early, with light green flesh and white skin	07	15	50
Jenny Lind. Small but very early and of good quality; green flesh	07	15	50
Green Nutmeg. Named from its shape, green flesh, sweet, good for main crop; early	07	. 15	50
Late Hackensack. Large, round and of good quality; a popular variety	07	15	50
Extra Early Hackensack. Ripens ten days earlier than the Hackensack; very early	07	15	50
Osage. Cocoanut shaped, yellow flesh, light green, netted skin, good quality; inter-			
mediate	07	15	50
Bay view. Very prolific and of great size; oblong, green flesh, late	07	15	50
Skillman Netted. Very early, oval in shape, flesh deep green, sweet and delicious	07	15	50
Orange Christian. One of the finest orange sorts; round, very sweet and very early	07	15	50
The Banquet. Beautifully netted, medium sized; flesh rich salmon, fine quality	07	15	50
Delmonico. Oval, deeply netted, large size, orange flesh	07	15	50
Baltimore Market. Oblong; orange flesh, of fine quality, intermediate	07	15	50
Netted Beauty. Extra early, densely netted; flesh pale green		15	50
Emerald Gem. Small, extra early; smooth ribbed dark green skin and orange flesh;			
quality first rate; very sweet			50
Green Montreal. Large, round, netted, flesh thick and light green; late		15	50
Long Yellow Cantalope. Yellow flesh, well adapted for the north; late	07	15	50
Banana Citron. Cucumber shaped, highly perfumed, of indifferent quality; late		25	50
Mango Melon or "Vine Orange." (Also called "Vegetable Peach.") Size, shape and color			
of an orange; thick, meaty flesh. Besides its use for preserving or pickling, it can be fried like Egg plant when partly ripe	08	25	60
Pineapple. Medium sized, oval shaped, tapering to stem; flesh green, very thick; deli-			00
cate and exceedingly high flavored; intermediate	07	20	60
Shumway's Giant. Very large, cream yellow, very distinct, salmon colored flesh, sweet			
and luscious	08	- 20	60
Rocky Ford. This is the most popular of the basket melons; oval, lightly ribbed, densly			
covered wilh coarse netting, flesh thick, green and sweet, highly flavored		20	60
Paul Rose or Petofsky. Unsurpassed in quality, unexcelled for shipping, flesh firm, rich	08	20	60
orange color, covered with dense netting, not ribbed		20	00
lucious	07	20	60
. 17			

MELON-WATER

Ready for Use in 60 to 90 Days



KOLB'S GEM

CULTURE—Treat the same as Musk Melon, except that they should be planted eight or ten feet apart, according to variety.

Hungarian Honey. A very early sort



from Hungary; fine for north-			
ern latitudes; perfectly round;	Per oz.	¼ lb.	Per lb.
flesh brilliant red; seeds very small	\$0 05	\$0 15	\$0 50
Gray Monarch or Long Light Icing. Largest Melon grown; crimson flesh; fine, late	5	15	40
Kolb Gem. Large; bright red flesh, of fine quality and a good shipper; intermediate	5	15	40
Pride of Georgia. Round, large, crisp; bright red flesh; intermediate		15	45
Stoke's Extra Early. A distinct melon; earliest of all, nearly round, dark green skinned, delicious sugary flavor, seed small; one of the best for the north	5	15	40
Mountain Sweet. Large oval variety; green rind, flesh scarlet; sweet and delicious; fine for home garden	5	15	40
Sweetheart. One of the best early shipping melons; fruit large, oval, mottled, light green; flesh bright red, firm, melting and sweet		15	40
Mclver's Sugar. Resembles the Rattlesnake but is very much superior; fine shipper	5	15	40
The Boss. Oblong, dark green; flesh deep scarlet, and thin rind; intermediate	5	15	40
Dark lcing. Solid, with thin dark green skin; of superior quality; white seed; early	5	15	40
Light lcing. Round; pink flesh, of fine quality	5	15	40
Mammoth Ironclad. Long, very large, late; red flesh; good shipper	5	15	40
Peerless or Ice Cream. Very early; red flesh; good home melon	5	15	40
Phinney's Early. Early and of fine quality; red flesh; fine for the North		15	40
Volga. Pale green skin and flesh; late	5	15	40
Dixie. A new melon of excellent quality; very large and solid; flesh red; intermediate	5	15	40
Kentucky Wonder. Oblong, dark green skin; scarlet flesh	. 5	15	40
Seminole. Very large; quality first rate; intermediate	. 5	15	40
Cuban Queen. Solid and heavy; skin marked regularly; excellent quality; early	. 5	15	40
Black Spanish. Large, roundish, nearly black, dark red flesh; early	. 5	15	40
Sweet Mountain. An old and reliable sort; flesh red; late	. 5	15	40
Florida Favorite. A superior strain; improvement on Rattlesnake; intermediate	. 5	15	40
Georgia Rattlesnake. Oblong, dark and striped; bright red flesh; late	. 5	15	40
Citron. Round and handsome; for preserving; red seed	. 5	15	40
Cole's Early. Very early; very sweet; fine home melon	. 5	15	40
Keckley's Sweet. Oblong; rich dark green; flesh bright scarlet; very sweet	. 5	15	40
Black Boulder. Nearly round; very large; black green; fine shipper	. 5	15	40
Black Diamond. Very fine color; good shipper		15	40
Jones' Jumbo. Very large; fine green color; meat deep red; fine shipper		15 15	40 40
Duke Jones. Early; large round; fine flavor; fine shipper	э	19	40

MARTYNIA

For Pickles

CULTURE—Sow in May in the open ground, three feet apart in each direction, where the plants are to remain; or the seed may be sown in a hot bed and the seedlings afterward transplanted. Both varieties are productive and fine for pickles. Pick when small and tender, and preserve the same as cucumbers.

	Per	oz.	¼ lb.	Per lb.
Proboscidea	\$0	25	\$0.75	\$2 50

MUSTARD

CULTURE—Sow thickly during early spring, in shallow drills, and press the earth well down. For fall salad, sow in September, or in frames or boxes during the winter.

	Per oz.	¼ lb.	Per lb.
Black. These seeds form the mustard of commerce	\$0 05	\$0 10	\$0 20
White London. Leaves used for salad while young; grows very rapidly	05	10	20
Giant Southern Curled. Very large leaves	05	10	3 0

NASTURTIUM

CULTURE—Sow as soon as all danger of frost is past, in drills about an inch deep. The tall kinds require fences or poles on which to climb. The seeds are used in flavoring pickles or as a substitute for Capers.

	Per oz.	¼ lb.	Per lb.
Tall Mixed	. \$0 15	\$0 40	\$1 25
Dwarf Mixed	15	40	1 25

OKRA OR GOMBO

CULTURE—Sow late in the spring, after the ground has become warm, in drills three feet apart, where the plants are to remain. Thin out from nine to twelve inches. They should be well manured. They may be also raised in pots or a hot bed and transplanted.

	Per oz.	¼ lb.	Per 1b.
Dwarf Green	\$0 10	\$0 20	\$0 50
Long Green	10	20	50
Early Dwarf	10	20	50

ONION SETS, TOPS, ETC.

Onion sets and tops should be planted near the surface, in drills about twelve inches apart and four inches in the rows. They must have high culture for the best results. These last are valuable for early use and where onions from seed cannot be raised the first year, they are essential.

Yellow Onion Sets, Bottom.	
White Onion Sets, Bottom.	WIDITE FOR
Red Onion Sets, Bottom.	WRITE FOR
White Potato Onions	PRICES IN
Yellow Potato Onions	FEBRUARY
Ton a Putter Orions	
Top or Button Onions,	

ONION

Ripens in 65 to 120 Days

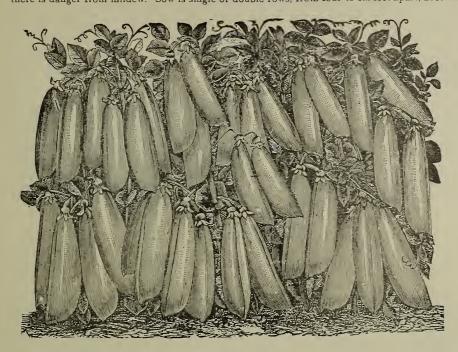
CULTURE—Sow in rich sandy soil, in drills one foot apart, as soon as the ground can be worked in spring. Thin to three or four inches, using the rake and hoe frequently to keep down the weeds.

MININ	White Barletta. A small white	Per oz.	¼ lb.	Per lb.
WHITE	Italian sort; the earliest of all; fine for pickling	\$0 15	\$0 40	\$1 50
	New Queen. Very early small white sort; the best pick-ling	. 15	40	1 50
	Large White Portugal. Standard sort, flat	20	60	2 25
	Large White Globe. Large South-	20	60	2 00
	Giant White Tripoli. Very large white	15	40	1 50
	White Flat Bermuda. Very early	15	40	1 50
	Red Flat Bermuda. Very early.	15	40	1 50
ARGO	Early Red Flat. Color of the Wethersfield; very early	15	40	1 25
RED WETHERSFIELD	Large Red Globe. Southport strain; one of the best reds; good keeper	20	60	2 00
	Large Red Wethersfield. Half- early, and a good keeper; standard sort		30	1 00
	Giant Rocca, Light Red. Productive and mild; of very large size	15	40	1 50
	Giant Rocco, Yellow. Same as above, save in color	15	40	1 50
DANVERS	Yellow Danvers. (Flat). A standard sort; rather oval; early and a good keeper	15	30	1 00
GLOBE	Yellow Globe Danvers. Of more globular shape; keeps well	15	30	1 00
	Large Yellow Globe. Southport strain; large, firm, mild; good keeper	20	50	1 75
	Yellow Strasburg. Fine keeper; the great set onion	15	30	1 00
	Maul's Prizetaker. Very large beautiful onion; white flesh, skin straw color; sweet, mild, tender; keeps medium		50	1 50
	Globe Wethersfield. Cross be- tween Red Wethersfield and Large Red Globe; very beautiful onion, fine keeper, excellent flavor; nothing finer for the mar-			2.00
Early Red Globe. Fine onion; mild and tender; not goo	ket gardener	20 20	50 30	2 00
Mammoth Silver King. Very large; white skin and fles	h, mild flavor, flat shape; fre-		50	1 00
quently weighs three pounds	This is a truly remarkable ripen extremely early; second, will any other onion; third, they e points are alone sufficient to	25	50	1 75
very attractive in appearance		20	50	2 00

PEAS

Ready for the Table in 50 to 70 Days

CULTURE—A week may be gained in earliness by sowing a quantity in moist sand, placed in a box in the cellar, and planting outside when well sprouted. Light dry soil, not over-rich, suits the Pea. Sow as early as the ground can be worked, and again every ten days for succession, up to the first of June, after which there is danger from mildew. Sow is single or double rows, from four to six feet apart, according to the differ-



NOTT'S EXCELSIOR
The Best Early Wrinkled Pea Sold.

ent heights; about an inch apart in the rows (except such sorts as we note to sow thin) and four inches Hoe often and keep the ground clean and fine. The tall sorts can be made to bear more freely by pinching - in. The dwarf varieties may be grown in beds like Bush Beans. with rows about the same distance apart. The holes which are some-

times found in peas are caused by the Pea Weevil (Bruchus pisi). This insect is a native of this country, but, as usual with such pests, has spread rapidly, and is now found nearly all over the world. The beetles lay their eggs on the young pods, and the larvæ, as soon as hatched, make their way through the pods into the nearest peas. They do not, as is sometimes supposed, destroy the germ, for peas will grow if they are infested, but the plant is likely to be more feeble, and for this reason will not produce as large a crop as if free from the weevil.

Peas marked thus (*) are wrinkled.

*NOTT'S EXCELSIOR

The Finest Dwarf Wrinkled Extra Early Variety

It is the best of recent introductions; vines are larger and more vigorous than the American Wonder while the pods are fully one-third larger, containing six to eight fine large peas, packed so closely together in the pods that the peas are always more square than round. The pods are always well filled with peas, which in sweetness and quality have no equal, being superior to any other wrinkled sort.

EXTRA EARLY PEAS	Height in ft.	Per pt.	Per qt.	Per pk.	Per bu.
*Nott's Excelsior. The finest Dwarf Wrinkled Extra Early variety	3/4	\$0 20	\$0 30	\$2 25	\$8 00
Rural New Yorker. Very early; prolific and uniform in ripening	21/2	15	25	1 50	5 00
First and Best. Early, resembling Rural New Yorker	21/2	15	25	1 50	5 00
Alaska. One of the very earliest blue Peas; quite productive	21/2	15	• 25	1 50	5 00
Alpha. An extra early wrinkled Pea; sow thick	3	15	30	1 50	5 00
*American Wonder. Nearly as early as Alaska, good yielder, extra quality	3/4	15	25	2 25	8 00
*Little Gem. McLain's very desirable early Pea, great producer, good					
quality	11/4	15	25	1 50	5 00
*Premium Gem. Earlier than Little Gem; better quality, great producer.		15	25	1 50	5 00
Extra Early Tom Thumb. Well known old variety	3/4	15	25	1 40	4 50

EARLY AND MEDIUM PEAS

EARLI AND MEDIUM PEAS					
	Height in ft.	Per pt.	Per qt.	Per pk.	Per bu.
*McLean Advancer. A fine standard sort of excellent quality	$2\frac{1}{2}$	\$ 0 1 5	\$0 25	\$1 50	\$5 00
*Horsford Market Garden. On the style of Advancer, very prolific	21/2	15	25	1 50	5 00
*Everbearing. Long pods and large Peas; sow thin	21/2	15	25	1 50	5 00
*Abundance Bliss. Medium early, very fine	1½	15	25	1 40	4 50
*Telephone. Very valuable, vigorous grower, pods large, peas sweet and					
tender	4	15	25	1 40	4 50
LATE PEAS					
*Champion of England. A well known standard variety; sow thick	5	15	25	1 25	4 00
*Heroine. Large full pods, enormously productive	21/2	15	25	2 00	7 00
*Yorkshire Hero. A spreading variety, very productive; sow thin	21/2	15	25	1 50	4 50
Melting Sugar. One of the best edible pod sorts	4	15	25	2 00	8 00
Mammoth Sugar. Gray seed, immense, edible pods	5	15	25	1 50	5 00
Tall Sugar. White seed, edible pods	5	15	25	2 00	8 00
*Dwarf Wrinkled Sugar. Large well filled pods, very productive		15	25	2 00	8 00
*Stratagem. The finest second early, vigorous and productive, 8 to 10					
large peas in pod, unsurpassed in quality	2 to 3	15	25	1 75	6 00

PEPPER

3 00

3 00

80

10

10

20

Marrowfat, Black-Eyed. The best marrowfat. 4 to 5

Marrowfat, White. An old standard sort, quality inferior, great yielder.. 4 to 5

CULTURE—Sow in hot beds in March, and when the soil has become warm set in rows two feet apart and eighteen inches in the rows; hoe frequently and keep down all weeds. The plants may also be forwarded in small pots.

	Per oz.	¼ lb.	Per lb.
Sweet Golden Dawn. Very handsome and distinct, and of mild flavor	\$0 20	\$0 60	\$2 25
Ruby King. Beautiful bright red large fruit, mild, one of the best; fine for pickles	20	60	2 25
Large Squash. Productive; much used for pickles	20	60	2 25
Long Red Cayenne. Bright red, very productive	20	60	2 25
Large Bell (or Bull Nose). Large and mild; excellent for pickling	20	60	2 25
Procopp Giant. Very large size and brightly colored, fine flavor	30	1 00	3 00
Red Cherry. Cherry shaped; for pickles, for which they are largely used	25	75	2 50
Red Cluster. A new type of Chili, with upright bright red fruits	20	60	2 25
Sweet Mountain. Large, regular and of mild flavor; one of the best for pickling	20	60	2 25
Celestial. A Chinese Pepper; at first fruit is yellow, and when fully matured becomes			
a deep scarlet	25	75	2 50

PARSNIP

Ready for Use in About 80 Days

CULTURE—Sow as early in the spring as the ground can be worked, in rich soil, in drills eighteen inches apart. The ground should be well and deeply dug. Thin to six or eight inches in the rows. Hoe and cultivate often to keep down the weeds.

	Per oz.	¼ lb.	Per lb.
Hollow Crown. A market gardener's strain	\$0 10	\$ 0 20	\$ 0 50
Maltese. One of the best sorts; not quite as long as the Long White	10	20	50

PARSLEY

CULTURE—Soak the seeds a few hours in luke warm water, and sow early in spring and until the middle of July, in drills one foot apart. Thin out the plants to four inches. To preserve in winter transplant to a light cellar or cold frame.

	Per oz.	¼ lb.	Per 1b.
Double Curled. Superior	\$0 10	\$0 20	\$0.75
Champion Moss Curled. Very pretty and one of the very best	10	20	75
Fern-Leaved. Fine curled	10	20	75
Hamburg or Rooted. Edible roots; much like parsnips	10	25	75

PUMPKIN

CULTURE-May be planted middle of spring, among corn or in the field or garden, in hills 8 or 10 feet apart each way, four seeds in a hill. In other respects are cultivated in the same manner as melons and cucumbers. Avoid planting them near other vines.

		Per oz.		Lb.
Large Cheese. Flat; one of the best varieties for family use;	good keeper	\$ 0 05	\$ 0 15	\$0 40
Sweet or Sugar. Fine-grained, sweet and prolific; small yell	ow; best for pies	5	15	40
Quaker Pie. Fine for pies, very prolific and a good keeper.		5	20	60
Striped Cushaw. Medium size, crookneck, very productive.		5	20	60
	impes. Medium size, flat; fine for cooking	5	30	90
	th Potiron. Grows to an enormous size, 150 to 175 lbs.; fine for exhibition	5	15	50
	th Tours. A very large French variety	5	15	50
	ce Sweet Potato. Bell-shaped; thick, white flesh; fine for pies	5	15	50
	ticut Field. Grown for stock; productive		5	20

RHUBARB

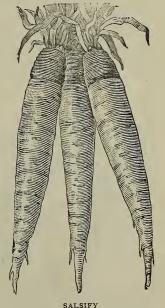
CULTURE—Sow seed in a cold frame, in a fine, rich, sandy loam, about the first of March, in drills four inches apart. Keep the frame covered during nights and cold days, so that the soil will not freeze, and in six to eight weeks the plants will be large enough to set in the open ground. Transplant to a rich soil, and

set in rows twelve inches apart and twelve inches in the rows. The following spring transplant again to four or five feet apart each way, and the next spring the stalks will be large enough to pull. When roots are set out, plant them four or five feet apart each way, and keep the weeds down. If roots are used a crop may be had after one season, which is much better than sowing seeds where only a few plants for family use are needed. In the fall the bed should have a thick dressing of coarse manure, to be spaded under in spring.

	Per oz.	¼ lb.	Per lb.
Mammoth. Very large, but good quality	\$0 20	\$0 40	\$1 25
Linnaeus. The earliest	20	40	1 25
Victoria. Very fine in quality, but small	20	40	1 25
Roots, per doz. 60 cts.: per 100, \$4.00			

SALSIFY OR VEGETABLE OYSTER

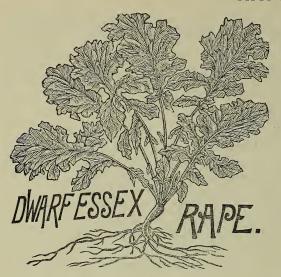
CULTURE—Sow as early as the ground can be worked in the spring, in drills twelve inches apart, one inch deep, and thin out to six inches in the row. Keep them free from weeds. Cultivate the same as for Carrots and Parsnips. A part of the crop may be left in the ground till spring, when it will be found fresh and plump. The roots are cut into pieces half an inch long, boiled till tender, and then served with drawn butter, in which way it is a delicious vegetable. They are also mashed and baked like Parsnips, and have a sweet, agreeable flavor. Mashed and fried, the flavor is much like that of the oyster.



MAM. SANDWICH ISLANDS

		Per oz.	¼ lb.	Per 1b.
Long White French		\$0 10	\$0 3 0	\$1 00
Mammoth Sandwich Island.	Large and superior	15	40	1 50

RAPE



DWARF ESSEX

A most profitable forage plant. We can think of no simple change which would do more to increase the profitableness of American farming than a more general use of Dwarf Essex Rape. It is an inexpensive crop, costing but little for seed or cultivation, is very hardy, can be made to take the place of some crop that has failed, and will yield an enormous crop of forage, or it can be sown after harvest as a cover crop, and, when fed off by stock, particularly sheep, will rapidly restore the fertility of exhausted soils. It is important that the true biennial Dwarf Essex Rape should be used, and not the annual sort, which is not only much less valuable as a crop, but which, when once introduced, becomes a pernicious weed very difficult to eradicate.

We handle only one variety of Rape, the Dwarf Essex, which is a biennial and one of the most profitable plants to use for green manuring

and pasture. There is no plant which will give as heavy a yield of forage at such a small cost as this, and its general cultivation would add largely to the profits of American farms. When fed off by sheep it will probably do more to restore and make profitable exhausted soils than any other plant. Beware of the worthless annual variety that is often sold and which is worthless for forage.

Rape in general appearance is much like the Ruta-baga—so far as tops are concerned—but there are no tubers. Grows from 2 to $2\frac{1}{2}$ feet high. Sheep or cattle are turned in in about eight weeks after sowing. The usual precautions should be taken against bloating—putting them on but a short time at first and gradually extending the time until they can remain all the time.

CULTURE—Prepare the ground as for turnips and sow in June or July, with a turnip drill, in rows two and one-half feet apart, at the rate of two and one-half pounds of seed per acre. It may be sown broadcast at the rate of five pounds per acre.

Many farmers are sowing Dwarf Essex Rape with their wheat or other spring sowing crops, putting it right in the drills with the grains sown. The Rape plants do not develop sufficiently to interfere with the growing grain, but after harvesting comes on rapidly.

One pound, 15 cts.; ten pounds, \$1.25. For larger lots write for prices.

RADISH

Ready for Use from 18 to 45 Days

CULTURE—Sow as soon as the ground is dry in the spring, in light, rich soil, in rows eight to twelve inches apart, every week or ten days for a succession, up to the middle of June, after which they are but little used, unless a cool northern spot can be had where the ground is shaded during part of the day. Sow also in early fall for late crops and winter use.

Those marked thus (*) are best suited for market gardeners.

	Per oz.	¼ lb.	Per lb.	
*Turnip Early Scarlet. Very early, crisp, good forcing	\$0 07	\$0 15	\$0 50	
*Turnip Early Deep Scarlet. Very early; used for forcing	7	15	50	
*Turnip Early Scarlet White-Tipped. Very early for frames				
or outdoors. This is one of the best for market				Fall .
gardeners	7	15	50	N



NON PLUS ULTRA

RADISH-Continued



	A Those marked thus (*) are best suited	for mar	ket garde	eners.
	*Turnip Early Non Plus Ultra. Extra	Per oz.	¼ lb.	Per lb.
	early scarlet forcing; short leaved	\$0 07	\$0 15	\$0 50
	*Turnip Early Deep Blood Red. Extra		_	
	early forcing sort	. 7	15	50
B 44 C	*Turnip Early White or Box. Suitable			
74.503 A	for forcing; flesh pure white and			
LEF THE	and sweet	7	15	50
	Turnip Yellow Summer. Dull yellow;	_		~0
	fine flesb	7	15	50
	Turnip Golden Summer. Smooth and bright skin	7	15	50
	Turnip Gray Summer. Good solid	•	10	50
	summer sort	7	15	50
	*Olive-Shaped French Breakfast. Pink			
	and white; early; standard sort	7	15	50
	Olive-Shaped White. Mild and fine			
	for summer	7	15	50
	*Long Scarlet Short Top. Very long			
	and crisp; for frames or open	—	15	70
Allered District Could STATE of the State of	ground	7	15	50
*Long Brightest Scarlet. White tipped; very brigh		7	15	50
*Long Scarlet Chartier White Tipped. Shades from a		7	15	50
*Long Wood Early Frame. Long, red, crisp, and go	-	7	15	50
Long White Vienna or Lady Finger. Crisp and tend		7	15	50
*White Strasburg Summer. Very large; the Germa		7	15	50
White Stuttgart Summer. Very early and very lan		7	15	50
*Winter Rose China. Very handsome and distinct		7	15	50
Winter Long Black Spanish. The popular winter s		7	15	50
Winter Round Black Spanish. Fine for winter		7	15	50
Winter Large White Spanish. Fine for winter		7	15	50



SORREL

CULTURE-Sow in spring, in drills eighteen inches apart, in a rich soil, and keep the flower stems cut off as they appear. It remains in the ground year after year and only needs to be taken up and divided once in four or five years. To be cut and cooked precisely like Spinach; or it is excellent cooked with it, onethird Sorrel to two-thirds Spinach. Very nice to be eaten after it has become cool. Inasmuch as the hot sun tends to increase its acidity, a northern exposure is preferable.

Per oz. ¼ lb. Per lb. Garden...... \$0 15 \$0 40 \$1 25



15

WHITE STRASBURG SUMMER RADISH

SQUASH

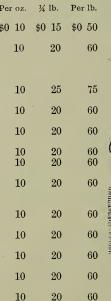
Ready for Use in 40 to 60 Days

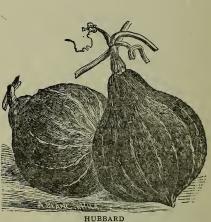
CULTURE—Sow in hills in the same manner and at the same time as Cucumbers and Melons; the bush varieties three to four feet apart, and the running kinds from six to nine feet apart.



	Per oz.	¼ lb.	Per lb.
Early Golden Bush Scallop. Fine for sum-			
mer use; not as early as the White,	\$0 10	\$0 20	\$0 60
Early White Scallop Bush. A good early			
shipping variety. Best scallop	10	20	60
Golden Summer Crookneck. One of the		_	
very best summer squashes	10	20	60
Egg Plant Bush Squash. A white-fleshed			
bush variety; oval in shape; suitable			
for frying like Egg Plant	10	20	60
Early Orange Marrow. An improved Bos-			
ton Marrow. Quite distinct, very			
early and of most delicious flavor;			
suitable for fall or winter	10	20	60
Boston Marrow. Oval; bright orange;			
flesh yellow and fine	10	20	60
Hubbard. Well known and liked for late			
use; of superior quality	7	15	40

I
Warty Hubbard. More warty, harder shell,
better keeper, true stock \$
Red or Golden Hubbard. Fine reddish or
or golden color, large size, fine
quality The Faxon. Medium size, very early and
productive; orange flesh of fine
quality
quality Turban. Orange yellow flesh of good
flavor
Bay State. With hard, blue shell; for
fall and winter
Pike's Peak or Sibley. Thick, bright
orange flesh; fine winter sort
Essex Hybrid. A good fall and winter sort,
Marblehead. Resembling the Hubbard,
but has gray skin
Perfect Gem. Round, white, fine quality,
productive; good either for fall or
winter
Squashes; fine quality; bright yellow
Pineapple. Peculiar shape, white skin
and flesh. Fine late sort
Canada Crookneck. Small, well known
winter sort, green skin
Mammoth Chili. Grows to an enormous
size; rich, crange yellow
one, man, orange jonomitiment





SPINACH

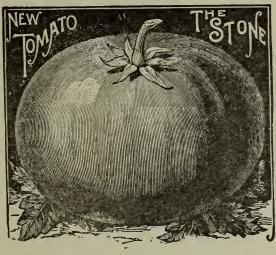
CULTURE—Sow in early spring, in drills a foot apart, every two weeks for a succession, and as it grows thin out for use. For fall use, sow in August, and for winter crop in September. Cover that which is left out over winter with straw or leaves, after the weather becomes quite cold. Keep clear of weeds. Sow the seed of New Zealand (which must be scalded and soaked in hot water before sowing) in hills three feet apart each way, three or four seeds in a hill. This is fit for cutting all summer.

5	Per oz.	¼ lb.	Per lb.
Viroflay Thick-Leaved. Has very large and thick leaves	\$0 10	\$0 15	\$0 35
Lettuce-Leaved. Popular French sort	5	10	30
Curled-Leaved Savoy or Bloomsdale. Large, tender leaves; fine	5	10	30
Long-Standing Round Thick-Leaved. Dark green; very long-standing before running to			
seed	5	10	30
Prickly. Vigorous and hardy	5	10	30

TOMATO

Ripening in from 85 to 120 Days.

CULTURE-Sow in hot bed in early spring, or the seed may be sown in shallow boxes and placed in a window when one does not wish to have the trouble of making a hot bed. Transplant to the open ground when all danger of frost is past, setting the plants three or four feet apart each way. Some support should



always be provided for the vines, to keep the fruit from touching the ground. Fruit may be had several weeks earlier by sowing the seed quite early, and transplanting to small pots; when these are filled with roots shift to a larger size, and transplant to open ground when the weather is warm and settled, shading from the sun for a day or so. As the roots are not disturbed in taking plants from the pots, the plants suffer no check, but grow

the pots, the plants suffer	er no ch	eck, bu	t grow
right on. Matchless. Extra large, smooth and hand-	Per oz.	¼ lb.	Per lb.
some; bright red; very	#0 15	#n 5n	#1 75
solid	\$0.15	\$0.00	\$1 75
variety in cultivation,	25	75	4 00
Ignotum. Very prolific; earliest of the large, deep red, smooth va-			
rieties	20	60	2 25
Volunteer. Moderately early; productive and of fair size; bright red	15	60	2 25
Dwarf Champion. Quite distinct in foliage and habit of growth, being compact and upright; fruits early and resembles the Acme in appearance,	15	50	1 75
Cardinal. Bright, glossy, smooth and solid; good size.	15	50	1 75
Atlantic Prize. The earliest of all; smooth, bright red and solid	15	. 50	1 75
Perfection. (Livingston). Early, regular and productive; red; heavy cropper	15	50	1 75
Favorite. (Livingston). Large, smooth; productive and a good shipper	15	50	1 75
Beauty. (Livingston). Large, smooth, pinkish red; thick flesh; regular form	15	50	1 75
Stone. (Livingston). Very large, perfectly smooth; fine bright scarlet. Best main crop	15	50	1 75
Acme. Medium, red; smooth and good. One of the best earlies	20	50	1 75
Early Advance. Bright red; medium sized, smooth, solid; very early	20	60	2 00
Turner's Hybrid or Mikado. Very large, smooth, solid; skin purplish red	20	60	2 25
Royal Red. A first class main crop variety; skin and flesh intense red color	20	60	2 25
Trophy, Large. Very solid; standard late sort; grown extensively for canning	20	50	1 75
Conquerer. Very early; fruit of medium size	20	60	2 25
Yellow Plum. Round and regular; bright yellow; used for pickles	20	60	2 25
Peach. Resembling a peach; for preserves, pickles and exhibition; quality excellent	20	60	2 25
Yellow Peach. Very handsome in form, and of a beautiful clear yellow color; is useful to contrast with other sorts	25	75	2 50
Red Cherry. Fruit about an inch in diameter, in bunches; used in pickles	25	75	2 50
Yellow Cherry. Similar to preceding, save in color	25	75	2 50
Red Pear-Shaped. Fruit of peculiar shape; handsome and solid	25	75	2 50
Upright Station Tree. The earliest of all to ripen a small part of its fruit; it grows in a			
compact manner, and is well adapted to pots	25	80	3 00
Strawberry. (Husk Tomato). Small and ornamental fruit; used for preserves	25	60	2 25
Golden Queen. Large size, handsome, very smooth, good quality	20	60	2 25
Golden Trophy. Similar to the Red Trophy	20	60	2 25
Tree Tomato.	30	1 00	3 50

TURNIP

Mature in 60 to 90 Days

CULTURE—For early turnips sow as soon as ground opens in spring. The Milan and Munich should be sown from any time in July to first of August; but the other kinds for winter use may be sown from middle of July to end of August. Turnips are generally sown broadcast, but much larger crops are obtained (particularly

PURPLE-TOP STRAP LEAF

of the Ruta Bagas) by cultivating in drills eighteen inches apart and thinning to six inches in the drill. Sow one pound to the acre.

		Per oz.	¼ lb.	Per lb.
	Early Milan. Earliest of all; with			
	purple top	\$0 05	\$0 20	\$0 60
	Purple Top Munich. One of the			
	earliest	5	20	60
	White Egg. Oval, handsome			
	and sweet	5	15	40
	Early Dutch. Rather flat; good			
	white early sort	5	15	40
	Cow Horn. Early and good;			
	shaped like a Nantes			
	carrot	5	15	40
	Red or Purple Top Strap Leaf.			
	The popular flat fall sort;			
	sweet, firm and mild	5	15	40
	Purple Top White Globe. A			
	standard sort in the New			
PURPLE-TOP STRAP LEAF	York market; nothing bet-			
	ter	5	15	40
White Norfolk. Globular, late, solid, very large, fine for	or stock	5	15	40
White Strap Leaf Flat. A good early white flat sort		5	15	40
White Globe. Good either for table or stock; one of the	e best	5	15	40

Yellow Globe. Good and sweet; keeps fairly well		¾ 1b. \$0 15	
Yellow Stone. Fine hard winter sort	5		40
Golden Ball or Orange Jelly. Very handsome; keeps fairly well	5	15	40
Sweet German. White, hard, firm, sweet; must be sown early; partakes of the nature of			
the Ruta Baga	5	15	40
Yellow Aberdeen. Hardy, productive and a good keeper	5	15	40

RUTA BAGA OR SWEDISH TURNIP

	Per oz.	¼ lb.	Per lb.
Monarch. Distinct in form; a grand good vari-			
ety; very large yielder; grows mostly above ground; flesh rich yellow	5	15	40
Improved American Purple Top. Very hardy var-			
iety; flesh yellow, sweet and well flavored;			
deep purple; has but little neck	5	15	40
Carter's Imperial Hardy. A purple topped variety,			
growing to a large size; single top root;	_		40
good flavor	5	15	40
White Swede or Russian. Excellent variety for			
either table or stock; white flesh; fine			
flavor; good keeper	5	15	40



LAWN GRASS

EMERALD GREEN GRASS MIXTURE

60 POUNDS SEED TO THE ACRE

FOR PARKS, GOLF, CROQUET AND TENNIS GROUNDS, CRICKET AND ATHLETIC FIELDS

Our Lawn Grass Mixture which we offer should not be compared with the cheaper preparations advertised. Our prescription is of the best chosen varieties as respects color, texture and permanency, and will be found clear of weed seeds. Anyone who purchases cheap, badly mixed lawn grass seed will soon realize that it was a poor investment, as the error will stand out for years in glaring ugliness.



FORMATION OF LAWNS FROM SEED

N the first place, see that your ground is thoroughly drained and well prepared, sowing at least three bushels of seed to the acre.

Perhaps the best description of soil for a lawn is the stiff loam or clayey soils which predominate in so many districts. This ought not to be by any means too rich, as a rapid growth is not wanted in the grasses of a lawn, but in preparing it for laying down let the surface be as much alike in quality as possible, and do not stint the quantity of seed.

If your ground is in condition to raise a good crop of potatoes it will make a good lawn; add about half a ton of bone dust to the acre, harrowed in before sowing the seed. The success of establishing a good lawn depends much on the season and the condition of the ground at the time of sowing. A very slight raking-in will protect the seeds much, or a sowing of wood ashes will render them distasteful to birds. Rolling, however, is at all times indispensable.

The best time to sow lawn grass seed is early in the spring, say February or March, or about the latter part of August. We prefer the early spring.

It is proper here to observe that no lawn can be maintained long in good order without successive rollings. Mowing alone will not secure a good bottom without that compression which the roller tends to give. The rolling should be done in the spring before the ground becomes dry.

TO GRASS A BANK OR TERRACE

For each square rod take a pound of lawn grass seed and mix it thoroughly with six cubic feet of good dry garden loam. Place in a tub and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth and then well watered, after which the paste should be applied and made as even and as thin as possible.

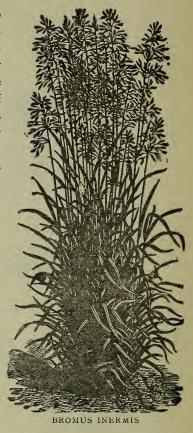
GRASS AND FIELD SEED DEPARTMENT



E do not deem it necessary to enter into an extended description of this branch of our business. In brief, we only wish to say that at all seasons of the year we are prepared to furnish as choice a line of Grass Seeds and Field Seeds as any market in the West. With our superior milling facilities we are prepared to reclean and grade all classes of seeds and put them on the market in the very best shape.

THERE ARE NO SEEDS OFFERED THAT ARE FREER FROM FOUL SEEDS THAN OURS

OUR PRICES WILL BE FOUND AS LOW AS ANY IN THE NORTHWEST



HAVE YOUR GRASS AND FIELD SEED MERCHANT WRITE FOR OUR PRICES

WE CARRY

Clovers, Alfalfa, Alsyke, Timothy, Blue Grass, Red Top, Bromus Inermis, Orchard Grass, all kinds of Millets, etc.

WE WANT TO BUY Anything in the above line you have to offer. Send us a good sized sample by mail and we will make you the highest market price



AROMATIC, MEDICINAL AND POT HERBS

GENERAL CULTURAL DIRECTIONS

OST of the varieties thrive best on rich sandy soil, which should be carefully prepared and well cultivated, as the young plants are for the most part delicate and easily choked out by weeds. Sow as early as the ground can be made ready, in drills sixteen to eighteen inches apart, taking pains that the soil is fine and pressed firmly over the seed, or they may be planted as a second crop, the seeds sown in beds in April and the plants set out in June. Most of them should be cut when in bloom, wilted in the sun and thoroughly dried in the shade.

ANISE. A well known annual herb whose seeds, which have an agreeable aromatic odor and taste, are used for dyspepsia and colic, and as a corrective of griping and unpleasant medicines. Sow early and thin to three inches apart in the row. Oz. 10c, ½ 1b. 30c, 1b. \$1 00.

BALM. A perennial herb, easily propagated by division of the root or from seed. The leaves have a fragrant odor, similar to lemons, and are used for making balm tea for use in fevers, and a pleasant beverage called balm wine. Plant early and thin to ten inches apart. Oz. 25c, ¼ lb. 75c, lb. \$2 50.

BASIL, SWEET. A hardy annual from the East Indies. The seed and stems have the flavor of cloves and are used for flavoring soups and sauces. Oz. 15c, ½ 1b. 40c, 1b. \$1.50.

CARAWAY. Cultivated for its seed, which is used in confectionery, cakes, etc. The leaves are sometimes used in soups. If sown early in August the plants will give a fair crop of seed the next season, but when sown in the spring will not seed until the next year. Plant in drills two or three feet apart and thin to six inches apart in the row. Oz. 10c, ¼ lb. 25c, lb. 75c.

CARAWAY FOR FLAVORING. Oz. 10c, 2 oz. 15c, ¼ lb. 20c, lb. 50c.

CAT MINT, OR CATNIP. A hardy perennial, well known as a valuable mild nervine for infants. The plants should be pulled up by the roots when in full flower and dried in the shade. The seed may be sown either in the fall or early spring, in drills twenty inches apart. Oz. 30c, ¼ lb. \$1.00, lb. \$3.00.

CORIANDER. A hardy annual, cultivated for its seed, which has an agreeable taste, and is used in confectionery and to disguise the taste of medicine. Sow early in the spring, and gather on a dry day, bruising the stems and leaves as little as possible. Oz. 10c, 1/4 lb. 25c, lb. 75c.

CORIANDER FOR FLAVORING. Oz. 10c, 2 oz. 15c, ¼ lb. 20c, lb. 50c.

DILL. An annual, cultivated for its seed, which has an aromatic odor and a warm, pungent taste. It is good for flatulence and colic in infants and is sometimes added to pickled cucumbers to heighten the

flavor. Sow early in spring and keep clear of weeds. Oz. 10c, ¼ lb. 20c, lb. 60c.

MARJORAM, SWEET. A perennial plant, but not hardy enough to endure the winter of the North. The young tender tops are used green for flavoring, or they may be dried for winter use. Sow in drills as early as possible, and thin out the plants to ten inches apart. Oz. 15c, ¼ lb. 40c, lb. \$1.25.

ROSEMARY. A hardy perennial, with fragrant odor and a warm, aromatic, bitter taste. May be easily raised from seed, but does not reach a size fit for use until the second season. The dried leaves deteriorate rapidly with age. Oz. 40c, ½ lb. \$1 25, lb. \$4.00.

RUE. A hardy perennial with a peculiar smell. The leaves are bitter and so acrid as to blister the skin. It is a stimulant and anti-spasmodic, but must be used with great caution, as its use sometimes results in serious injury. It must not be suffered to run to seed and does best on poor soil. Oz. 15c, ½ lb. 40c, lb. \$1.50.

SAFFRON. A hardy annual from Egypt that has become naturalized in many parts of the country; cultivated for its flowers, which are used in dyeing and to make the cosmetic powder called *rouge*. Oz. 20c, ½ lb. 60c, lb. \$2 00.

SAGE. A hardy perennial, possessing some medicinal properties, but cultivated principally for use as a condiment, it being used more extensively than any other herb for flavoring and dressing Sow early in spring (four to five pounds to acre in drills) on very rich ground; cultivate often and thin the plants to sixteen inches apart. Oz. 15c, ¼ lb, 40c, lb. \$1.25.

SUMMER SAVORY. A hardy annual, the dried stems, leaves and flowers of which are extensively used for flavoring, particularly in dressings and soups. Culture the same as that of Sweet Marjoram. Oz. 10c, ½ lb. 30c, lb. \$1.00.

THYME. This herb is perennial and is both a medicinal and culinary plant. The young leaves and tops are used for soups, dressing and sauce; a tea is made from the leaves, which is a great remedy in nervous headache. Sow as early as the ground will permit. Oz. 20c, ¼ lb. 60c, lb. \$2.00.

Reliable Nursery Stock.

DESIRE to call your attention to our FINE and COMPLETE LINE of NURSERY STOCK.

If you will be needing anything in this line, it will pay you to write us for our descriptive and illustrated Price List.

Forest Trees—Ash, Maple, Box Elder, Cottonwood, Locust. Waluut, Elm, Mulberry, etc.

Fruit Trees—The Hardiest and Best-Apple, Plum, Cherry, Crab, Pear, etc.

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Roots for the Garden-Rimbarb, Horse Radish, Asparagns.

Ornamental Trees—Mt. Ash, Birch, Beech, Linden, Chestnuts, Poplars, Weeping Willow, etc.

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Roses We have the finest line of Roses and Shrubs in the Northwest.

One-Hulf Usual Price—If you will examine our Price LIST you will see that we bo SELL FOR ONE-HALF what stock is usually sold for.

Reliable and True to Name—As we grow our stock very largely at Sioux City we know what it is, and that you can depend on it being True to Name.

PRICES

ORNAMENTAL SHADE TREES

KIND	SIZE	1	5	10	20
Mountain Ash	5 to 6 ft.	.30 cts	25 cts	20 cts.	.20 cts
Mt. Aslı, oak leaf	5 to 6 ft.	.40 cts	85 cts	30 cts.	.25 cts
Birch, cut leaf	6 to 7 ft.	.75 cts	30 ctsf	50 cts.	.50 cts
Linden, Enropeau	6 to 7 ft.	40 cts	85 cts	30 cts.	25 cts
Chestnut, Sweet	5 to 6 ft.	.50 cts	10 cts	35 cts.	.30 cts
Chestunt, Horse	5 to 6 ft.	.50 cts	45 cts	10 cts.	.30 cts
Poplar, silver leaf	5 to 0 ft.	.25 cts	20 cts	18 cts.	. 15 cts
Poplar, silver leaf	6 to 7 ft.	30 cts:	25 cts2	22 cts.	.20 cts
Maple, hard	6 to 7 ft.	40 cts	35 cts	30 cts.	.20 cts

WEEPING ORNAMENTAL TREES

		1	*	5
Birch, cut leaf, Weeping	75	cts60	cts.	.50 cts
Ash, Mt., Weeping	75	cts(%	cts.	.50 cts
Willow, New American	75	cts60	cts.	.50 cts
Willow, Kilmanock	75	cts60	cts.	.50 cts
Mulberry, Tea's Weeping	90	cts73	cts.	.70 cts

PRICES ON ROSES

	1	3	6	12	25
Hybrid Per. or Hybrid Tea\$6	25	\$0 60	\$1.00	\$1.75	\$3 25
Cliurbing	25	60	1 00	1 75	3 25
Moss Roses	30	75	1 25	2 00	3 50
Ramblers	40	1.00	1 50	2 50	4 50
Summer Roses	30	75	1 25	2 00	3 50
Memorial Roses	25	60	1 00	2 00	3 50

FRUIT TREE DEPARTMENT

KIND	AGE	SIZE	EACH	1	0	25	50	100	200
Apple and Crab									
- 1									
Cherry									
731									
Plunt									
41									

SMALL FRUITS

	6	12	25	L00	500	1000
BLACKBERRIES -Snyder, the hardiest\$	20\$	30\$	50\$	1 50	\$ 6 00	. \$10 00
RASPBERRIES Red, Cuthbert or Turner	20	30			5 00	
	25	40	60	50	5 50	. 10 00
Orimson, Shaffer's Colossal	30	40	75	2 00	9 00	. 16 00
Yellow, Golden Queen	26	40	60	1 50	3 00	. 10 00
Older, Black Cap	30				6 00	
GOOSEBERRIES Houghton, 1 yr. No. 1	20				9 00	
Houghton, 2 yr. No. 1,	30.,				11 00	
Downing, 1 yr. No. 1	30				16 00	
Downing, 2 yr. No 1	40	70	50	5 00	20 00	
CURRANTS Red or White, 1 yr, No. 1	30				12 00	
Red or White, 2 yr. No. 2	20	85	60	1 50	7 00	. 13 00
Red or White, 2 yr. No. 1	40				20 00	
Fay's, 1 yr. No. 1 (Genuine)	-10	60 1	25	1 00		
Fay's, 2 yr	50	75	50	3 00		
Bluck, Lee's, old English variety	50	75	50			

GRAPES

				100	
	1 YR. 2 YR.	1 yr. 2 yr.	1 yr. 2 yr.	1 yr. 2 yr.	1 YR. 2 YR.
CONCORD-Black, very hardy	10 cts 15 cts	.\$ 50# 60	00 2200 22.	\$3 50\$5 00	.\$16 00\$25 00
MOORE'S EA-Black, med. hardy	15 cts20 cts	. 1 00 1 50	. 4 00 5 00	7 00 9 00	
WORDEN - Black, very hardy	15 cts20 cts	. 75 1 00	. 2 00 3 00	4 00 5 00	. 25 00 30 00
LADY-White, hardy	15 cts20 cts	. 1 00. 1 50	. 4 00 5 00	7 00 9 00	
MARTHA White, hardy	15 cts20 cts	75 1 00	. 2 50 3 00	4 00 5 00	
POCKLINGTON-Golden, m'd, h'dy	15 cts20 cts	1 00 1 25	. 3 00 4 00		
ELVIRA White, hardy					
BRIGHTON Red, hardy					
NIAGARA-White, hardy	15 cts20 cts	. 75 1 00	. 3 50 3 00	4 00 5 00	

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No. 418 Edmond Street, ST. JOSEPH, MO.

We are General Agents for the Sioux City Seed & Nursery Co.'s Celebrated Northern Grown Nursery Stock.

Most complete line of Fruit Trees, Plants, Vines, Shrubs, Roses, Ornamentals, Seedlings, Bulbs, etc., in the West.

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3 Flower Seed Department



Everybody is so well acquainted with the pictures of the various flowers we omit them. We give below a list of the STANDARD VARIETIES. If some are wanted not found in this list, remember we can supply them as well, so include

We Handle Only the Best Strains of Each Kind

CITRESS VIKE DIANTHUS LSCHSCHOLTZIA GAILLARDIA ULLIOTROPE IPOMODA

STABIOSA STOCK SUNFLOWER SWEET PLAS TORENIA VIRBENA ZINNIA HELICHRYSUM ORNAMENIAL GRASSES

We are General Agents for the Following Lines and Carry a Full Stock on Exhibition at Our Storerooms. Special Catalogue of all lines on request.

That is the mortest way to cell what this Planet Jr. No. 4 Combined Seeder and Wheel Hec does. Sow in drills or drops in fill at any listance. Opens the drills, sows, covers, cells and number the major at one operation, Being very fact it returned the seed in just when the ground and all conditions are ut their best. All plants get an even start. Can be changed epidel, to enlights, he is the plow, libber of the attendment for all these uses. One made continuous feet when the plow, libber of the late of th

S. L. ALLEN & CO., Box 711-E, PHILADELPHIA, PA







Morrill & Morley's **Barrel Spray Pumps**

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Crushed Oyster Shells
Cracked Bone
Instant Louse Killer
Dr. Hess Poultry Panacea
Hygea Egg Food
Roup Pills
Etc., Etc., Etc.



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